## **Business Mathematics In Canada 8th Edition Jerome Test Bank**

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Student:

1. Evaluate the following accurate to the cent:  $20 - 4 \times 2 - 8$ 

2. Evaluate the following accurate to the cent:  $18 \cdot 3 + 6 \times 2$ 

3. Evaluate the following accurate to the cent:  $(20 - 4) \times 2 - 8$ 

4. Evaluate the following: 18  $(3 + 6) \times 2$ 

5. Evaluate the following:  $20 - (4 \times 2 - 8)$ 

6. Evaluate the following:  $(18, 3 + 6) \times 2$ 

7. Evaluate the following: 54 - 36,  $4 + 2^2$ 

8. Evaluate the following:  $(5 + 3)^2 - 3^2$ , 9 + 3

9. Evaluate the following: (54 - 36),  $(4 + 2)^2$ 

10. Evaluate the following:  $5 + (3^2 - 3)^2$ , (9 + 3)

11. Evaluate the following: 
$$\frac{8^2 - 4^2}{(4-2)^3}$$

12. Evaluate the following: 
$$\frac{(8-4)^2}{4-2^3}$$

13. Evaluate the following:  $3(6 + 4)^2 - 5(17 - 20)^2$ 

14. Evaluate the following:  $(4 \times 3 - 2)^2$ ,  $(4 - 3 \times 2^2)$ 

15. Evaluate the following: [(20 + 8  $\times$  5) - 7  $\times$  (- 3)] , 9

16. Evaluate the following:  $5[19 + (5^2 - 16)^2]^2$ 

Evaluate the following accurate to the cent:

$$$100 \left(1 + 0.06 \times \frac{45}{365}\right)$$

18.

$$\frac{$200}{1+0.09\times\frac{4}{12}}$$

 $\frac{\$500}{(1+0.05)^2}$ 

Evaluate the following accurate to the cent:

20. Evaluate the following accurate to the cent:  $$1000(1+0.02)^3$ 

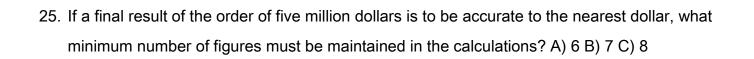
$$100 \left( \frac{\left(1+0.04\right)^2-1}{0.04} \right)$$

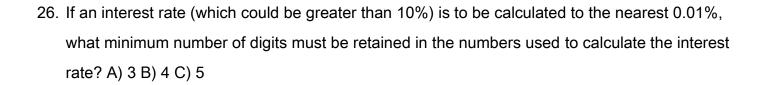
$$\$300 \left[ \frac{1 - \frac{1}{\left(1 + 0.03\right)^2}}{0.03} \right]$$

Evaluate the following accurate to the cent:

23. If you want four-figure accuracy in your answer, what minimum number of figures must be retained in the values used in the calculations? A) 4 B) 5 C) 6

24. For a final result of approximately \$7000 to be accurate to the cent, what minimum number of figures must be maintained in the values used in the calculations? A) 6 B) 7 C) 8





27. The following fraction has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $\frac{7}{8}$ 

28. The following fraction has a terminating decimal equivalent form. Express its decimal and percent 65

equivalent forms to five-figure accuracy:  $\frac{65}{104}$ 

equivalent forms to five-figure accuracy:

equivalent forms to five-figure accuracy:

29. The following fraction has a terminating decimal equivalent form. Express its decimal and percent  $\underline{47}$ 

30. The following fraction has a terminating decimal equivalent form. Express its decimal and percent

31. The following fraction has a terminating decimal equivalent form. Express its decimal and percent -35

25

equivalent forms to five-figure accuracy:

32. The following mixed number has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $1\frac{7}{25}$ 

33. The following fraction has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $\frac{25}{1000}$ 

34. The following fraction has a terminating decimal equivalent form. Express its decimal and percent 1000

25

equivalent forms to five-figure accuracy:

35. The following mixed number has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $2\frac{2}{100}$ 

36. The following mixed number has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $-1\frac{11}{32}$ 

37.	. The following fraction has a terminating decimal equivalent form. Express	s its decimal	and p	ercent
	27.5			

50

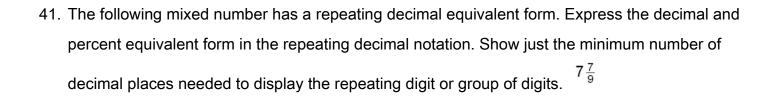
38. The following fraction has a terminating decimal equivalent form. Express its decimal and percent

equivalent forms to five-figure accuracy:

39. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal  $\frac{5}{6}$ 

places needed to display the repeating digit or group of digits.

40. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits.



42. The following mixed number has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits. 11/11

43. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits.  $\frac{10}{9}$ 

44. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits.  $\frac{-4}{900}$ 

45. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal

> 7 270

places needed to display the repeating digit or group of digits.

46. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal

37 27

places needed to display the repeating digit or group of digits.

47. Round the following to four-figure accuracy: 11.3845

48.	Round the following to four-figure accuracy: 9.6455
49.	Round the following to four-figure accuracy: 0.5545454
50.	Round the following to four-figure accuracy: 1000.49

51.	Round the	following to	four-figure	accuracy:	1.0023456	
52.	Round the	following to	four-figure	accuracy:	0.030405	
53.	Round the	following to	four-figure	accuracy:	40.09515	

54.	Round the following to four-figure accuracy: 0.0090909
55	Convert the following fraction to its decimal equivalent and percent equivalent values, rounded to
	Convert the following fraction to its decimal equivalent and percent equivalent values, rounded to five figures: $\frac{1}{6}$
E6	Convert the following fraction to its desired equivalent and percent equivalent values, rounded to
	Convert the following fraction to its decimal equivalent and percent equivalent values, rounded to five figures: $\frac{7}{6}$

57. Convert the following fraction to its decimal equivalent and percent equivalent values, rounded to five figures:  $\frac{1}{60}$ 

- 58. Convert the following mixed number to its decimal equivalent and percent equivalent values,
  - rounded to five figures:  $2\frac{5}{5}$

59. Convert the following fraction to its decimal equivalent and percent equivalent values, rounded to  $\underline{250}$ 

five figures: 365

60.	Convert the following fraction to	its decimal	equivalent	and percent	equivalent values	, rounded to
	15					

five figures: 
$$\overline{365}$$

five figures: 
$$\frac{0.11}{12}$$

## 62. Convert the following fraction to its decimal equivalent and percent equivalent values, rounded to

$$\frac{0.095}{12}$$
 five figures:

 $$92 \left(1+0.095 \times \frac{112}{365}\right)$ 

Evaluate the following accurate to the nearest cent:

64.

$$100 \left(1+0.11 \times \frac{5}{12}\right)$$

Evaluate the following accurate to the nearest cent:

65.

$$454.76 \left(1-0.105 \times \frac{11}{12}\right)$$

66.

$$\frac{\$790.84}{1+0.13\times\frac{311}{365}}$$

Evaluate the following accurate to the nearest cent:

67.

$$\frac{\$3490}{1+0.125 \times \frac{91}{365}}$$

Evaluate the following accurate to the nearest cent:

68.

$$\frac{\$10,000}{1-0.10\times\frac{182}{365}}$$

 $650 \left(1 + \frac{0.105}{2}\right)^2$ 

Evaluate the following accurate to the nearest cent:

70.

$$$950.75 \left(1 - \frac{0.095}{4}\right)^2$$

Evaluate the following accurate to the nearest cent:

71.

$$\frac{\$15,400}{\left(1+\frac{0.13}{12}\right)^6}$$

Evaluate the following accurate to the nearest cent:

73. What is 33 
$$\frac{1}{3}\%$$
 of \$1527?

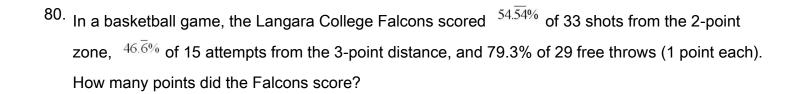
74. What is 2.75% of \$2.75?

75. What amount is 250% of \$25?

76. 0.025% of \$200 is what amount?

77.  $\frac{1}{2}\%$  of \$30?

78.	Bethany and Irwin estimate their total cost for a vacation in Cuba to be \$14,775. If 53% of this cost is for flights and accommodations and 42% is for meals, how much money will they be able to spend on entertainment?
79.	In the month of July, a convenience store had total sales of \$102,300 from its gas pumps and other in-store products. If HST is 13% of sales, how much HST was collected on the in-store products if these sales represent 36% of total sales?



81. 
$$\frac{\$6600 \left(1+0.085 \times \frac{153}{365}\right)}{1+0.125 \times \frac{82}{365}}$$

Evaluate the following accurate to the nearest cent:

82. 
$$\frac{\$780 \left(1 + \frac{0.0825}{2}\right)^5}{\left(1 + \frac{0.10}{12}\right)^8}$$

83.

$$\$1000 \left[ \frac{\left(1 + \frac{0.09}{12}\right)^7 - 1}{\frac{0.09}{12}} \right]$$

Evaluate the following accurate to the nearest cent:

84.

$$\frac{\$350}{\frac{0.0975}{12}} \left[ 1 - \frac{1}{\left(1 + \frac{0.0975}{12}\right)^5} \right]$$

85.

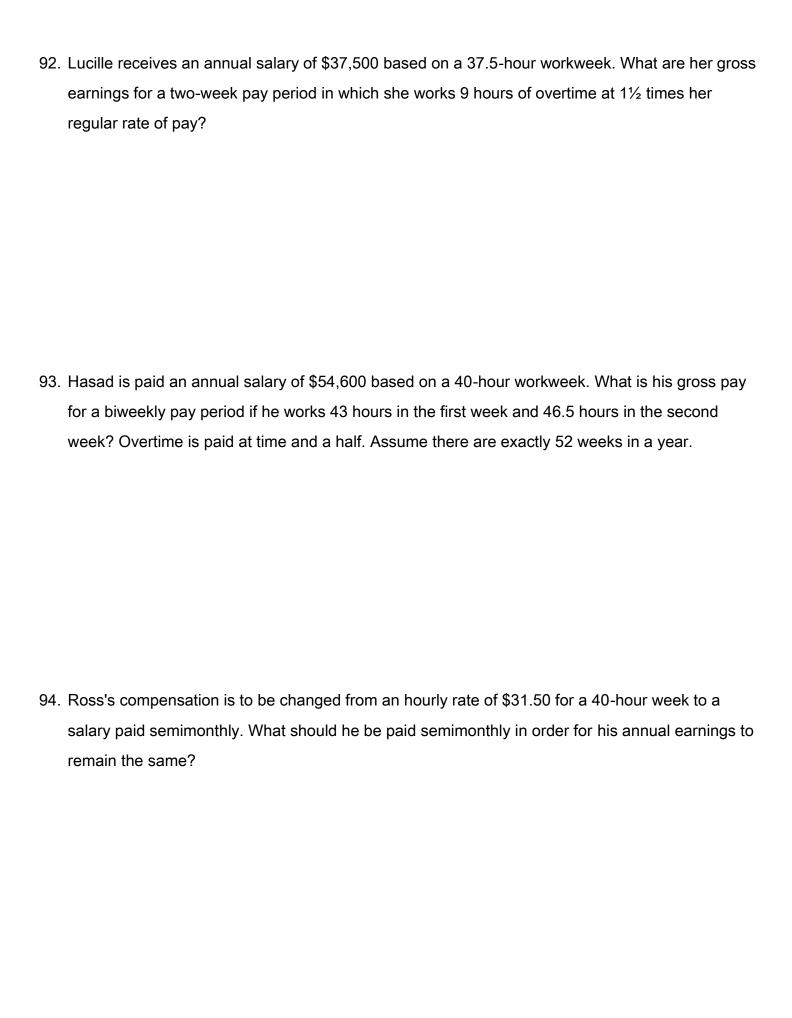
$$\frac{\frac{\$9500}{\left(1+\frac{0.075}{4}\right)^{5}-1}}{\frac{0.075}{4}}$$

Evaluate the following accurate to the nearest cent:

$$\$45 \frac{\left[1 - \frac{1}{\left(1 + \frac{0.0837}{2}\right)^4}\right]}{\frac{0.0837}{2}} + \frac{\$1000}{\left(1 + \frac{0.0837}{2}\right)^4}$$

87.	The Calgary Flames hockey team announced that its season's ticket sales represent 67.50% of
	the Scotiabank Saddledome's seating capacity of 19,289 seats. Rounded to the nearest 100, how
	many seats were not sold to season's ticket holders?
88.	The Royal Canadian Mint sells one troy ounce (31.16 grams) platinum collector coins of 99.95%
	purity. How many milligrams of impurities are in a single coin?
89.	Stan is a real estate salesperson. He receives 60% of the 4.8% commission that the real estate
	agency charges on sales. If his sales for the past year were \$5,225,000, what was the dollar
	value of his commission?

90.	The maximum amount an individual can contribute to her Registered Retirement Savings Plan (RRSP) for a year is set from time to time by the Regulations of the Income Tax Act. For the year 2013, the maximum contribution was the lesser of \$23,820 or 18% of the individual's "earned income" during 2012. What was the maximum RRSP amount that could be contributed in 2013 based on an income of \$128,500 in 2012?
91.	Aletta's annual salary of \$58,800 is paid weekly. She is paid at time and a half for any overtime beyond her regular workweek of 35 hours. What is her gross pay for a week in which she works 39 hours?



95.	Allison's regular hourly rate of pay is \$17.70. She is paid time and a half for all work on weekends and for any time over 7.5 hours on weekdays. Calculate her gross earnings for a week in which she works 4.5, 0, 7.5, 8.5, 6, 6, and 9 hours on Saturday to Friday, respectively.
96.	Sam is paid \$34.50 per hour as a power plant engineer. He is paid 1½ times the regular rate for all time exceeding 8 hours in a day or 40 hours in a week. Statutory holidays worked are paid at double time (in addition to holiday pay). What were his gross earnings for a week in which he clocked 8, 9.5, 8, 8, 10, 0, and 8 hours on Saturday to Friday, respectively, where Monday was a statutory holiday?

97.	Mary sews for a clothing manufacturer. She is paid \$7.50 per hour plus a piece rate that depends on the type of garment in production. The current production run is men's shirts, for which she is paid \$3.00 for each unit exceeding her quota of 20 shirts in an 8-hour shift. What will be her total pay for a regular workweek in which her output on successive days was 24, 26, 27, 28, and 30 shirts?
98.	Herb packs fish in 500-g cans on a processing line. He is paid \$8.25 per hour plus \$0.18 per kilogram for production in excess of 500 kg in a 7.5-hour shift. How much will he earn per day if he packs 250 cans per hour?

- 99. Svetlana is an independent insurance broker placing various clients with any of several insurance companies. On homeowner insurance policies, each month she receives:
  - \$20 for each renewal of an existing policy;
  - \$35 for each policy placed with a new client; and
  - 5.5% of the annual premiums on all policies (new and renewed) written in the month.

In October, she placed 37 new-client policies representing \$14,375 in annual premiums and 126 policy renewals representing \$47,880 in annual premiums. What amount did Svetlana earn in October?

100.Hillary sells cosmetics from her part-time home-based business. She receives a straight commission of 21% from her supplier. At the year-end, she also receives a 7% bonus on sales exceeding her annual quota of \$100,000. What will her gross annual earnings be for a year in which her average monthly sales are \$11,000?

101.Manfred is considering job offers of the same type of sales position from two retailers with similar product lines:

Supreme Audio & Video is offering a base salary of \$2000 per month plus a 4% commission rate on sales;

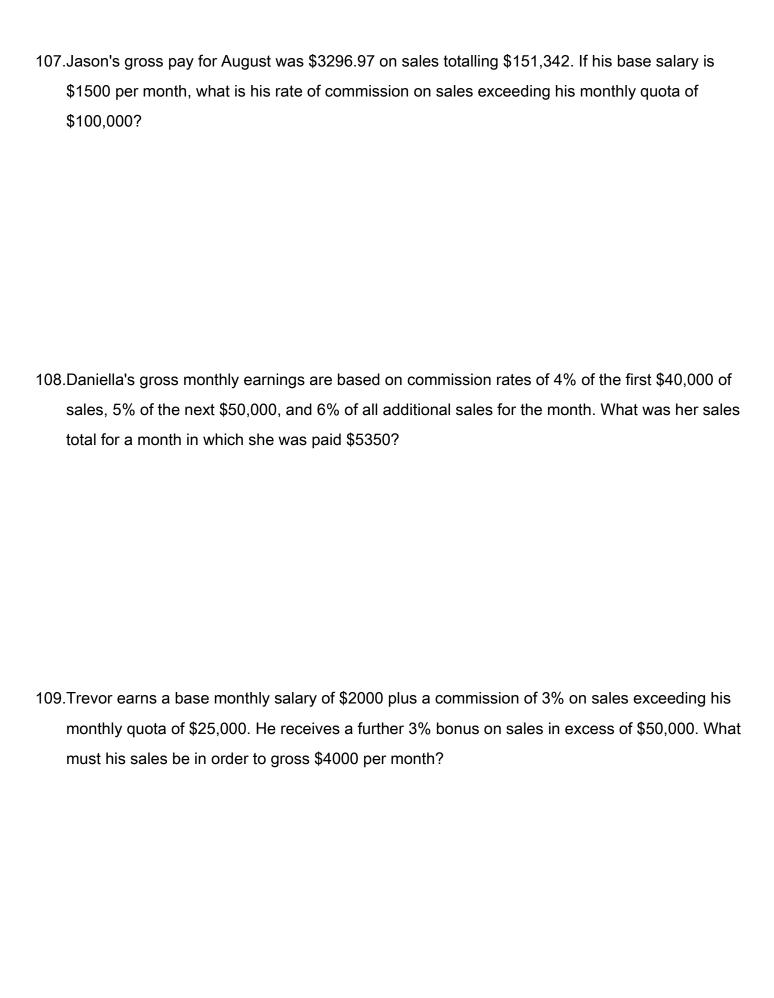
Buy-Right Electronics will pay a base salary of \$1500 per month plus commission rates of 3% on the first \$25,000 of sales and 6% on additional sales in a month.

Based on past experience in similar sales positions, Manfred is confident he can attain average monthly sales of \$55,000. At this level of sales, what would be his average gross earnings per month from each retailer?

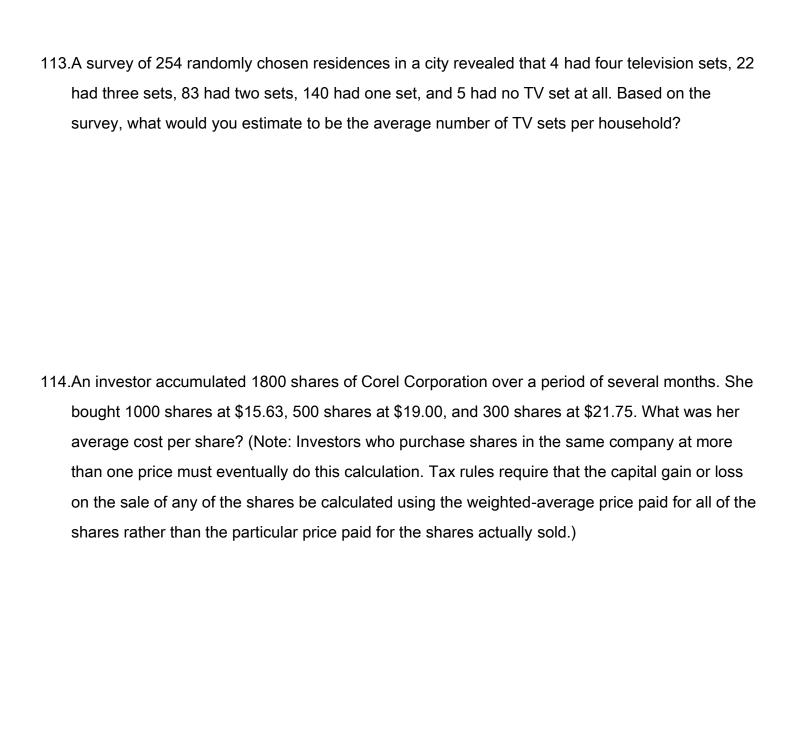
102.A shoe salesman is paid the greater of \$600 per week or 11% of sales. a) What will be his earnings for a week in which sales are \$5636? b) At what volume of sales per week will he start to earn more from the commission based compensation?

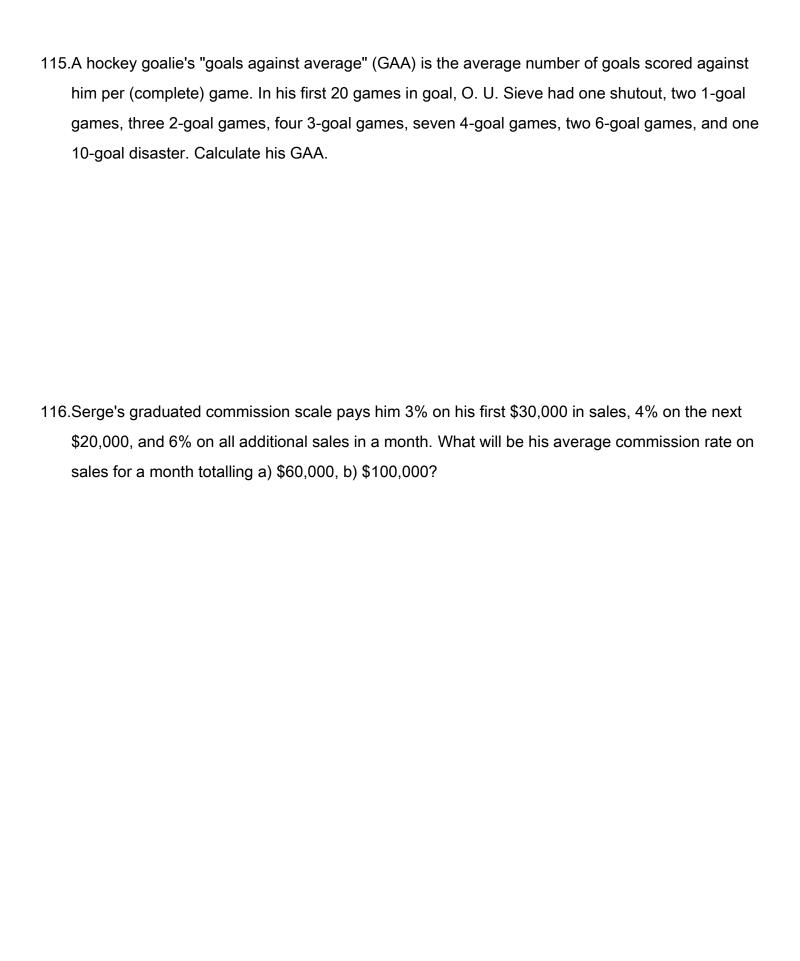
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105.	Julio is paid on a graduated commission scale of 5% on the first \$20,000 of sales in a month,
	7.5% on the next \$20,000, and 10% on all additional sales.
	a) What will he be paid for a month in which his sales are \$54,880?
	b) What single commission rate on all sales would result in the same earnings for the month?
106.	Karen works in a retail computer store. She receives a weekly base salary of \$300 plus a
	commission of 3% of sales exceeding her quota of \$20,000 per week. What were her sales for a
	week in which she earned \$630.38?



110.In what circumstance should you calculate a weighted average instead of a simple average?
111.In what circumstances will the weighted average be equal to the simple average?
112.How must you allocate your money among a number of investments so that your portfolio's overall rate of return will be the same as the simple average of the rates of return on individual investments?





117. The RBC Royal Bank offers an "add-on option" on fixed-rate mortgages. The option allows the customer to borrow additional funds partway through the term of the mortgage. The interest rate charged on the combined mortgage debt becomes the weighted average of the old rate on the former balance and the current competitive rate on new mortgage financing. Suppose Herschel and Julie had a mortgage balance of \$37,500 at 8%, when they borrowed another \$20,000 at 7%. What interest rate will they be charged by the RBC Royal Bank on the new consolidated balance?

118. Margot's grades and course credits in her first semester at college are listed below.

Grade	C+	B-	B+	C-	В	С
Credits	5	3	4	2	3	4

Using the table in Example 1.5D for converting Letter Grades to grade Point Value, calculate Margot's grade point average for the semester.

119. The distribution of scores obtained by 30 students on a quiz marked out of 10 is listed below.

Score	10	9	8	7	6	5	4	3	2	1
Number of Students	2	6	9	7	3	2	0	1	0	0

What was the average score on the test?

120.Alihan's transcript shows the following academic record for four semesters of part-time college studies. Calculate his cumulative GPA at the end of his fourth semester.

Semester	Credits	GPA
I	6	3.5
II	9	3.0
III	12	2.75
IV	7.5	3.2

121. The "age" of an account receivable is the length of time that it has been outstanding. At the end of October, a firm has \$12,570 in receivables that are 30 days "old," \$6,850 that are 60 days "old," and \$1325 that are 90 days "old." What is the average "age" of its accounts receivable at the end of October?

122.One year ago, Sook-Yin allocated the funds in her portfolio among five securities in the proportions listed below. The rate of (total) return on each security for the year is given in the third column of the table.

	Portion	Rate of Return
Security	invested	for the year
Company A Shares	15%	14%
Province A Bonds	20	10
Company C Shares	10	-13
Units in Fund D	35	12
Company E Shares	20	27

Calculate the rate of return for the entire portfolio.

123.One of the methods permitted by Generally Accepted Accounting Principles for reporting the value of a firm's inventory is weighted-average inventory pricing. The Boswell Corporation began its fiscal year with an inventory of 156 units valued at \$10.55 per unit. During the year it made the purchases listed in the following table.

Date	Units Purchased	Unit Cost
February 10	300	\$10.86
June 3	1000	10.47
August 23	500	10.97

At the end of the year, 239 units remained in inventory. Determine: a) The weighted-average cost of the units purchased during the year. b) The weighted-average cost of the beginning inventory and all units purchased during the year. c) The value of the ending inventory based on the weighted-average cost calculated in b.

124. Suppose a group of consumers spends 30% of its disposable income on food, 20% on clothing, and 50% on rent. If over the course of a year the price of food rose 10%, the price of clothing dropped 5%, and rent rose 15%, what was the average price increase experienced by these consumers?

125.A restaurant owner set her menu prices at a predetermined percentage of her input costs for food, ingredients, and beverages. The prices as a percentage of these costs for various menu categories are presented in the second column of the table. The third column presents the

Menu category	Menu price as a percentage of costs	Percentage of sales revenue
Appetizers	300%	10%
Entrees	200%	50%
Desserts	225%	25%
Beverages	250%	15%

breakdown of the restaurant's overall revenue from the four men categories. On average, what are menu prices as a percentage of the basic input costs? Overall, what are the input costs as a percentage of revenue?

126.The balance on Nucorp's revolving loan began the month at \$35,000. On the eighth of the month another \$10,000 was borrowed. Nucorp was able to repay \$20,000 on the 25<sup>th</sup> of the 31-day month. What was the average balance on the loan during the month? (Use each day's closing balance as the loan balance for the day.)

127.A seasonal manufacturing operation began the calendar year with 14 employees. During the year, employees were taken on or laid off on various dates as presented in the table below.

Date	Employee changes
April 1	7 hired
May 1	8 hired
June 1	11 hired
Sept. 1	6 laid off
Oct. 1	14 laid off

What was the average number of employees on the payroll during the calendar year? (Assume that each month has the same length.)

128.Marcel must temporarily invest extra money in his retail business every fall to purchase additional inventory for the Christmas season. On September 1 he already had a total of \$57,000 invested in his business. Subsequently, he invested or withdrew cash on various dates as shown in the following table.

Date	Additional injection or withdrawal
Oct. 1	\$15,000 injection
Nov. 1	\$27,000 injection
Feb. 1	\$23,000 withdrawal
March 1	\$13,000 withdrawal
May 1	\$6000 withdrawal

What was the average cumulative investment in the business during the period from September 1 to August 31? (Assume that each month has the same length.)

129. When a company calculates its earnings per common share for its financial statements, it uses the weighted-average number of common shares outstanding during the year. Enertec Corp. began its fiscal year (January 1 to December 31) with 5 million common shares outstanding. Additional common shares were issued during the year as indicated in the following table.

Date	Event	Additional shares issued
March 1	New public offering	1,000,000
June 1	Employees and officers exercise stock options	500,000
Nov. 1	Convertible bonds exchanged for shares	750,000

What was average number of common shares outstanding during the year? (Assume that each month has the same length.)

130.Lien, the proprietor of a grocery store, prepares her Deluxe Nut Combo by mixing various ingredients she buys in bulk. The second column of the following table presents the amount of each ingredient Lien uses in making a batch of the Combo mix. In order to set the retail price of the Deluxe Nut Combo at 150% of her cost, Lien must determine her cost based on the average wholesale cost of the ingredients given in the third column.

Ingredient	Amount	Cost per kg
Peanuts	5 kg	\$2.95
Cashews	2 kg	\$9.50
Almonds	1 kg	\$11.50
Sunflower seeds	500 g	\$2.75
Raisins	400 g	\$3.60
Smarties	300 g	\$6.40

- a. What is Lien's average cost per 100 g of her Deluxe Nut Combo?
- b. What is her retail price per 100 g?

131. Johnston Distributing, Inc. files quarterly GST returns. The purchases on which it paid the GST and the sales on which it collected the GST for the last four quarters were as follows:

Quarter	Purchases	Sales
1	\$596,476	\$751,841
2	967,679	627,374
3	823,268	1,231,916
4	829,804	994,622

Calculate the GST remittance or refund due for each quarter. (GST = 6%)

132.Sawchuk's Home and Garden Centre files monthly GST returns. The purchases on which it paid the GST and the sales on which it collected the GST for the last four months were as follows:

Month	Purchases	Sales	
March	\$135,650	\$57,890	
April	213,425	205,170	
May	176,730	313,245	
June	153,715	268,590	

Calculate the GST remittance or refund due for each month. (GST = 6%)

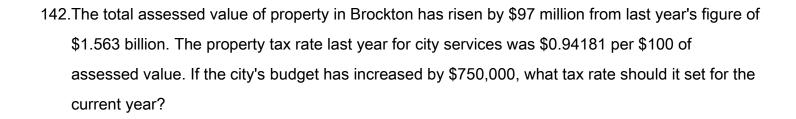
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135.Angie's Flower Shop charges 13% Harmonized Sales Tax (HST) on all purchases.	
a) How much HST will she report for a plant priced at \$39.45? b) As of February 4, 2013, if a consumer pays cash and cannot give the exact change, the total amount of the transaction must be rounded up or down. How much change will be given if the above purchase is paid for with a \$50 bill?	
136.To attract shoppers, retailers occasionally advertise something like "Pay no hST!" Needless to say, neither the federal nor the provincial government is willing to forego its sales tax. In this situation, the retailer must calculate and remit the H as though the "ticket" price already includes these sales taxes. How much H must a retailer in New Brunswick report on a \$495 item that he sells on a Pay-No-H basis? (Hint: What percentage is the HST of a H-inclusive price?)	

137.What are the taxes on a property assessed at \$227,000 if the mill rate is 16.8629?
138.a) Express a property tax increase of 0.1 mill in terms of dollars per \$100 of assessed value?  b) If the mill rate increases by 0.1 mill, what is the dollar increase in property taxes on a \$200,000 home?
139.The assessment on a farm consists of \$143,000 for the house and \$467,000 for the land and buildings. A mill rate of 15.0294 applies to residences, and a rate of 4.6423 applies to agricultural land and buildings. What are the total property taxes payable on the farm?

140. The assessed value on a property increased from \$285,000 last year to \$298,000 in the current
year. Last year's property tax rate was \$1.56324 per \$100 of assessed value. a) What will be the
change in the property tax from last year if the new tax rate is set at \$1.52193 per \$100? b) What
would the new tax rate have to be for the dollar amount of the property taxes to be unchanged?

141. The school board in a municipality will require an extra \$2,430,000 for its operating budget next year. The current mill rate for the school tax component of property taxes is 7.1253. a) If the total of the assessed values of properties in the municipality remains at the current figure of \$6.78 billion, at what value must next year's school mill rate be set? b) If the total of all assessed values rises by 5% over this year's aggregate assessment, at what value must next year's school mill rate be set?



143. Solve the following equation 
$$(2^3 - 3)^2 - 20 \div (2 + 2^3)$$

144. 
$$\left[4\left(2\times3^2-2^3\right)^2\div\left(10-4\times5\right)\right]$$
 Solve the following equation

$$$213.85 \left(1-0.095 \times \frac{5}{12}\right)$$

Solve the following equation

146.

$$\frac{\$2315}{1+0.0825\times\frac{77}{365}}$$

Solve the following equation

147.

$$325.75 \left(1 + \frac{0.105}{4}\right)^2$$

Solve the following equation

$$\frac{\$710}{\left(1+\frac{0.0925}{2}\right)^3}$$

Solve the following equation

149.

$$$885.75 \left(1+0.0775 \times \frac{231}{365}\right) - \frac{\$476.50}{1+0.0775 \times \frac{49}{365}}$$

Solve the following equation

150.

$$$859 \left(1 + \frac{0.0825}{12}\right)^3 + \frac{$682}{\left(1 + \frac{0.0825}{12}\right)^2}$$

Solve the following equation

151. Evaluate the following: 
$$96 - (6 - 4^2) \times 7 - 2$$

$$96 - (6 - 4^2) \times 7 - 2$$

$$81 \div (5^2 - 16) - 4(2^3 - 13)$$

Evaluate the following:

$$\frac{\$827.69}{1+0.125\times\frac{273}{365}} + \$531.49 \Biggl(1+0.125\times\frac{41}{365}\Biggr)$$

Evaluate the following:

154.

$$$550.45 \left(1+0.0875 \times \frac{195}{365}\right) - \frac{\$376.29}{1+0.0875 \times \frac{99}{365}}$$

Evaluate the following:

155.

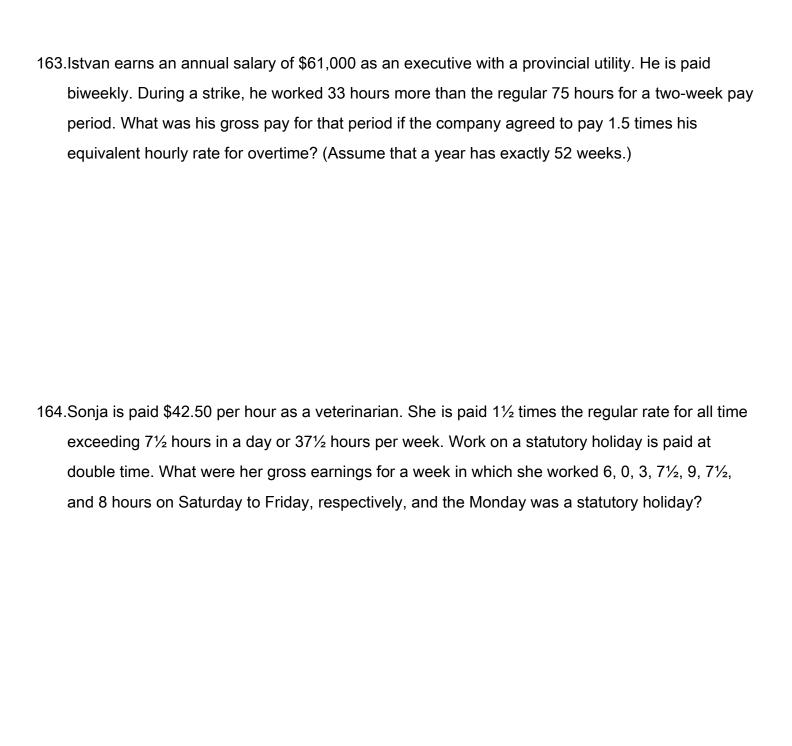
$$1137 \left(1 + \frac{0.0975}{12}\right)^2 + \frac{2643}{\left(1 + \frac{0.0975}{12}\right)^3}$$

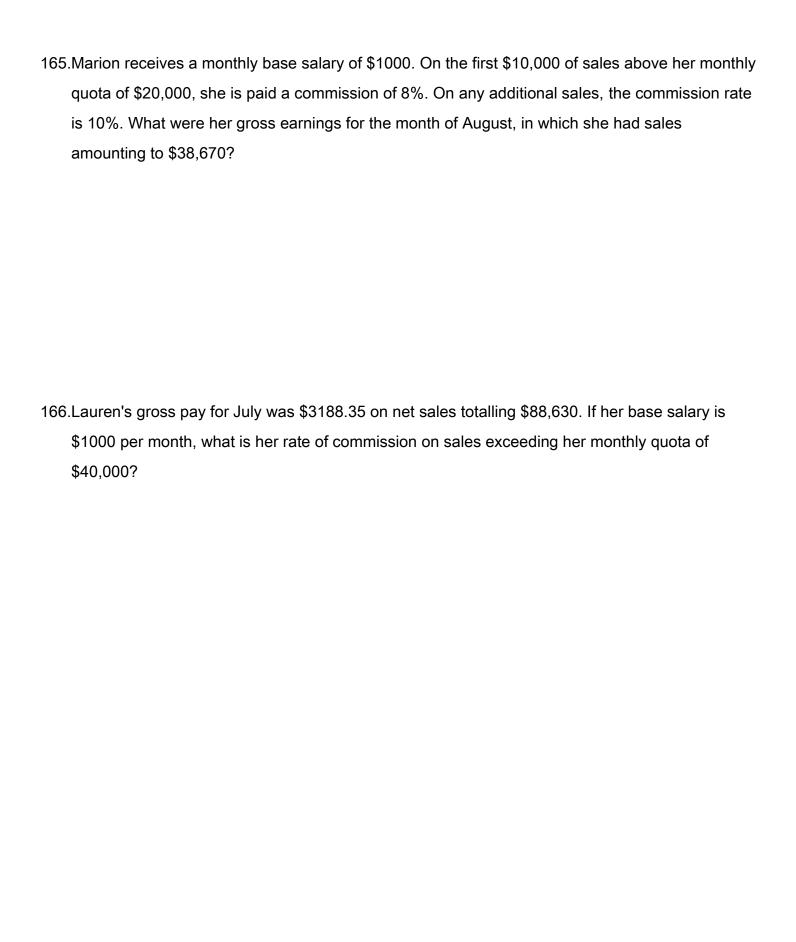
Evaluate the following:

156. What amount is 62% of \$99?

157.What is 80% of \$156.25?
158.¾% of \$133. <sup>33</sup> is what amount?
159.How many minutes is 12.5% in 2 hours?

160. The profit forecast for the most recent fiscal quarter is \$23,400. The actual profit is 90% of the
forecast profit. What is the actual profit?
161.Renalda sold Westel stock that she purchased at \$2.20 per share one year ago for a 35% gain.
At what price did she sell the stock?
162.Luther is paid an annual salary of \$56,600 based on a 37½-hour workweek.
a) What is his equivalent hourly wage? (Assume that a year has exactly 52 weeks).
b) What would be his total remuneration for a bi-weekly pay period of that year if he worked 4.5 hours of overtime at time and a half?





lavel signed a listing agreement with a realtor. The commission rate is 4% on the first \$200,000 f the selling price, and 2.5% on the remainder. a) What commission will Havel pay if he sells his ome for \$289,000? b) What is the average commission rate on the selling price?
Souvenirs and Such" is a gift shop in Niagara Falls. Last year 22% of its revenue came from the ale of clothing, 18% from food items, and 32% from novelty items and the remainder from pecial services they provide for tourists. This past year they experienced a 5% increase in the ale of clothing, a 2% increase in the sale of food items, a 9% drop in novelty items and a 2% rop in special services. What is the average change in their revenue for this year?

169.Ms. Yong invested a total of \$73,400 in three mutual funds as shown in the table below. The third column shows the change in value of each fund during the subsequent six months.

	Amount	Change
Mutual Fund	Invested (\$)	in value (%)
Canadian equity fund	16,800	-4.3
US equity fund	25,600	-1.1
Global equity fund	31,000	8.2

What was the percent change in value of Ms. Yong's overall mutual fund portfolio during the sixmonth holding period?

170.One year ago Helga allocated the funds in her portfolio among five securities in the amounts listed in the following table. The rate of return on each security for the year is given in the third column of the table.

	Amount	Rate of return
Security	Invested	for the year
Company U shares	\$5000	30%
Province V bonds	20,000	-3
Company W shares	8000	-15
Units in Fund X	25,000	13
Company Y shares	4500	45

Calculate the rate of return for the entire portfolio.

171.Anthony began the year with \$96,400 already invested in his Snow 'n Ice retail store. He withdrew \$14,200 on March 1 and another \$21,800 on April 1. On August 1, he invested \$23,700, and on November 1 he contributed another \$19,300. What was his average cumulative investment during the year? (Assume that each month has the same length.)

172. The fiscal year for Pine Valley Skiing Ltd., the owner of a downhill skiing facility, ends on June 30. The company began the recently completed fiscal year with its summer maintenance crew of 7. The following table presents the sequence of employees hired and layoffs during the fiscal year.

Date	Employee changes
Sept. 1	6 hired
Nov. 1	18 hired
Dec. 1	23 hired
Mar. 1	11 laid off
Apr. 1	20 laid off
May 1	16 laid off

What was the average number of employees working for Pine Valley during the fiscal year? (Assume that each month has the same length.)

173.

$$$250 \left(1+0.05 \times \frac{145}{365}\right)$$

Evaluate the answer correct to the cent:

Evaluate the answer correct to the cent:

175.

Evaluate the answer correct to the cent:

176.

$$$700(1+0.05)^3$$

Evaluate the answer correct to the cent:

$$1100 \left( \frac{\left(1+0.05\right)^2 - 1}{0.05} \right)$$

Evaluate the answer correct to the cent:

178.

$$$3000 \left(1+0.04 \times \frac{285}{365}\right)$$

Evaluate the answer correct to the cent:

179.

$$\frac{\$750}{1 + 0.04 \times \frac{5}{12}}$$

Evaluate the answer correct to the cent:

$$\frac{\$100}{1 + .025 \times \frac{13}{12}}$$

Evaluate the answer correct to the cent:

181.

$$\frac{$1000}{1+0.05)^2}$$

Evaluate the answer correct to the cent:

182. Evaluate the answer correct to the cent:

$$1700(1+0.04)^3$$

$$$6000 \left( \frac{\left(1+0.045\right)^2 - 1}{0.045} \right)$$

Evaluate the answer correct to the cent:

184. Solve the following equation 
$$30 \div 3 + 12 \div 4$$

$$30 \div 3 + 12 \div 4$$

185. Solve the following equation 
$$30 \div (3+12) \div 2$$

$$30 \div (3 + 12) \div 3$$

Solve the following equation

$$12 + 3 \left[2 + (4^2 - 13)^2\right]^2$$

187. Solve the following equation 
$$5 - (2-4)^2 + 2^3 - 4^2$$

$$5 - (2 - 4)^2 + 2^3 - 4^2$$

Convert the following to its decimal and percent equivalents.

$$2\frac{2}{5}$$

Convert the following to its decimal and percent equivalents.

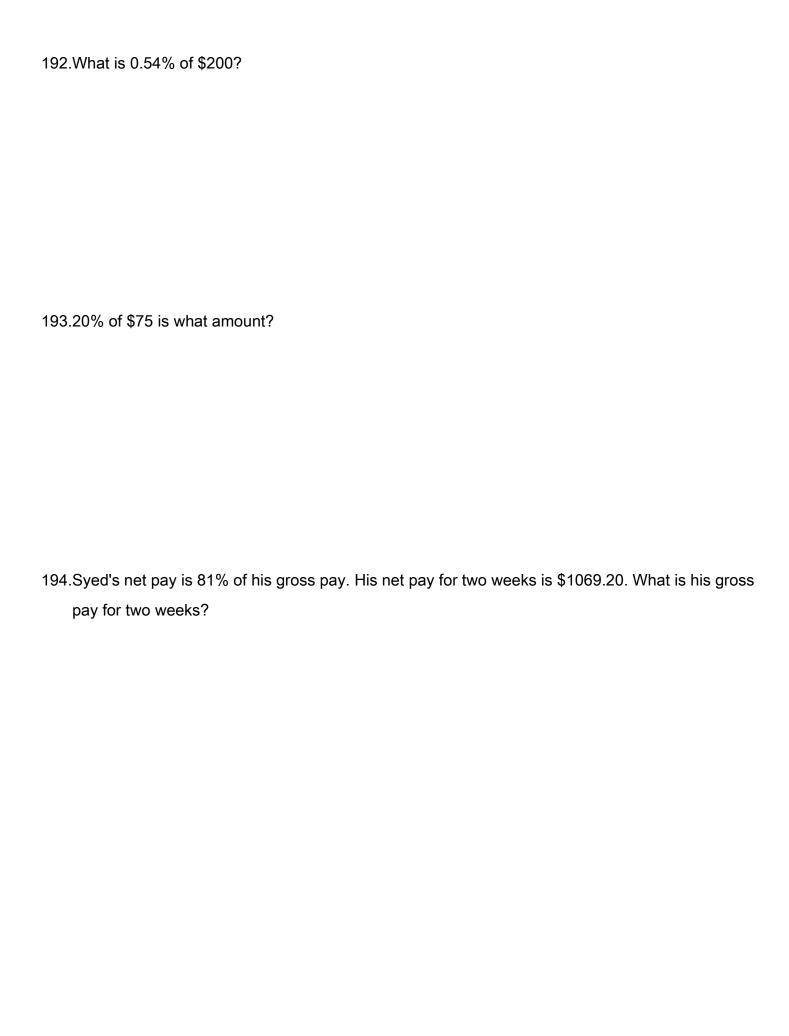
190.

$$$500 \left[ \frac{(1+0.04)^6-1}{0.04} \right]$$

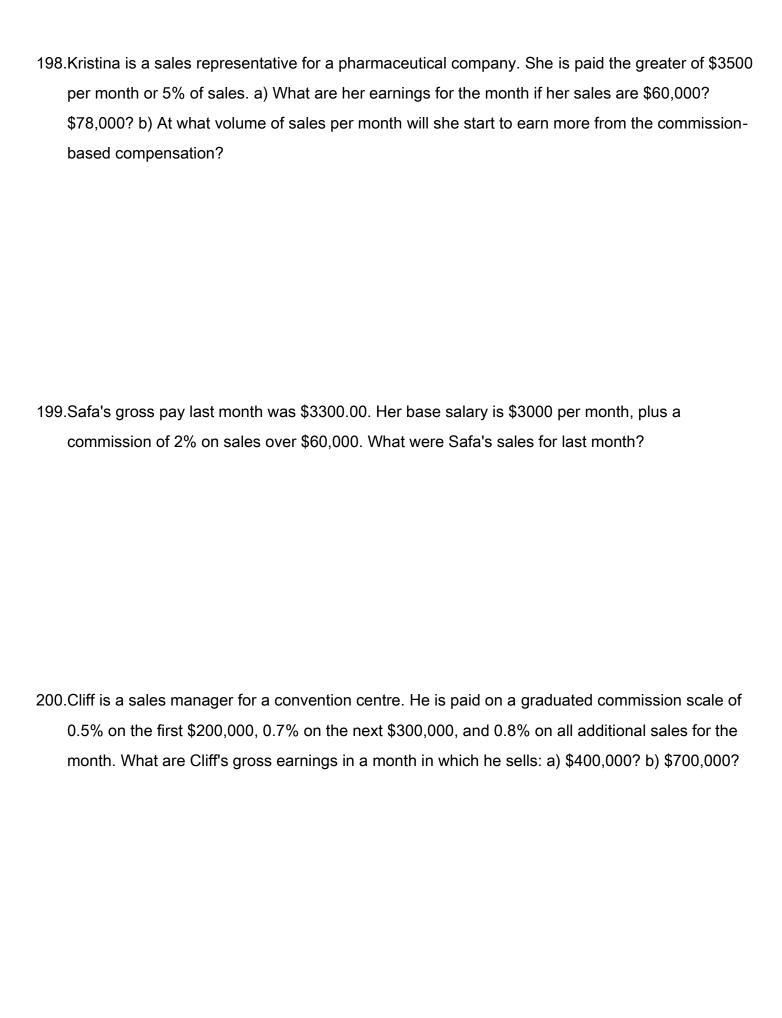
Evaluate:

191.

$$\frac{\$80\left[1 - \frac{1}{\left(1 + \frac{0.03}{2}\right)^4}\right]}{\frac{0.03}{2}} + \frac{1000}{\left(1 + \frac{0.03}{2}\right)^4}$$



195.What amount is 130% percent of \$1150?
196.Hany earns \$17.00 per hour for a forty-hour week. His overtime rate is 1 ½ times any hours exceeding forty in a week. What will Sam's gross earnings be for a week if he works 42.5 hours?
197.Surinder works in a retail store in Square One in Mississauga. She earns a base salary of \$320 per week, and a commission of 3% on sales over her quota of \$5000. How much will Larissa earn if her sales for the week are: a) \$4500? b) \$8500?



201. Fatima took six courses last semester. Her grades and course credits are as follows:

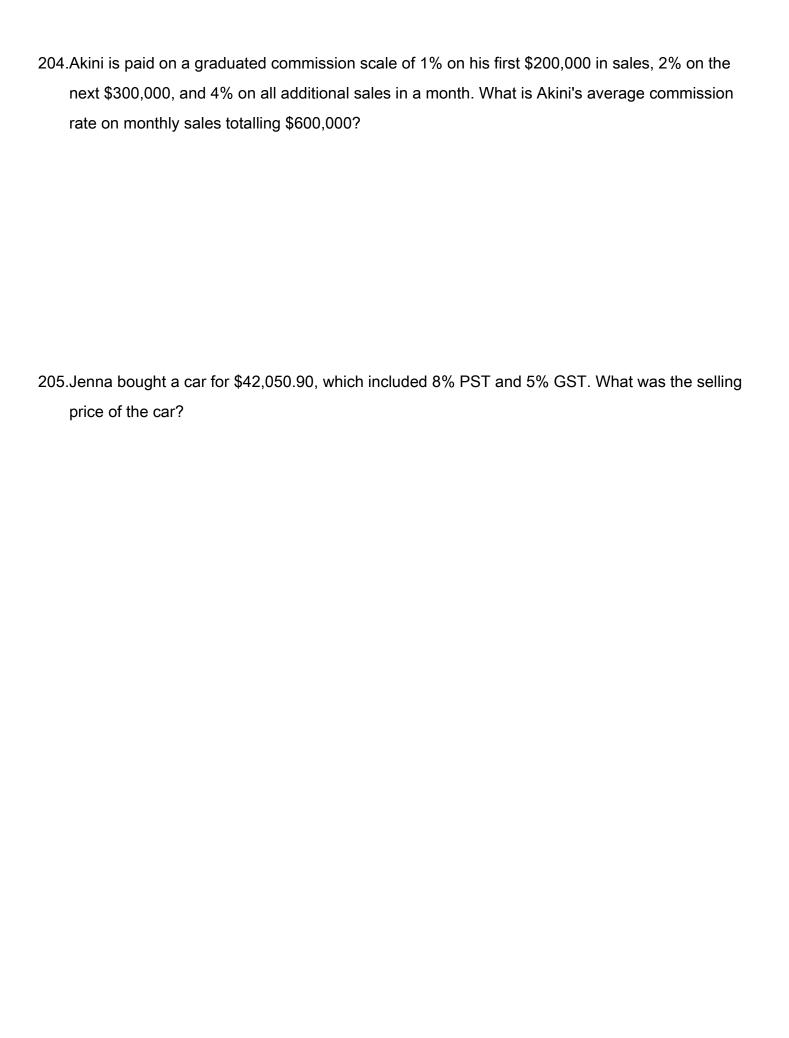
Course	Grade	Credits
Accounting	B+	3
Business Mathematics	A	4
Human Resources	В	3
Economics	C+	3
Computer Applications	A	2
Marketing	В	3

Using the Letter Grade to Grade Point Value conversion table in Example 1.4D, calculate her grade point average for the semester.

202. The following grades are from the first business mathematics test in the semester. What is the class average?

Grade	Number of Students
100	2
97	3
95	4
91	1
88	2
87	2
85	3
80	5
78	3
77	2
75	4
65	2
60	3
58	4
41	1
40	1

203.Mrs. Sandhu invested \$10,000 at 5%, \$15,000 at 4%, and \$20,000 at 3%. Calculate Mrs. Sandhu's overall rate of return.



206.M Studios files GST returns quarterly. In the last quarter, M Studios sold picture frames totalling	g
\$3,750, photographic equipment for \$78,225, and billed \$43,580 for studio work. In the same	
time period, M Studios paid \$3,000 for rent, \$1275 for utilities, and purchased goods subject to	)
GST for \$65,000. What GST must be remitted by M Studios (or refunded by the CRA) for this	
quarter? (Assume GST = 5%)	

207.Sam buys a sweater listed at \$100. How much will he pay for the sweater including taxes in: a)

Ontario? b) Quebec? c) Alberta? d) Manitoba?

(Assume GST = 5%)

208. The town of Simcoe is considering raising the \$2 billion required for a sports complex by approving a new capital levy component of the property tax. The levy must be collected over the next five years. If the total assessed value of property in the town is \$875 billion, what additional tax will a home owner of a property assessed at \$300,000 pay?

209. Evaluate  $8 - 5 \times 2 - 3 =$ 

- A. -5
- B. 3
- C. 5
- D. -3
- E. 15

210.Evaluate 8 - 4 × (2 - 3) =

- A. -4
- B. 12
- C. 5
- D. 11
- E. 4

211.Evaluate 18  $\div$  3 + 8 - 4 × 2 - 3 =

- A. 17
- B. 25
- C. 3
- D. 11
- E. 4

212.Evaluate 18  $\div$  3 + (8 - 4) × (2 - 3) =

- A. -10
- B. 17
- C. -18
- D. 2 E. 4

213.Evaluate 8 -  $4 \times (2 - 3)^2 =$ 

- A. 25
- B. -1
- C. 12
- D. 17
- E. 4

# 214.Evaluate 6 - 2 + 3 $\times$ (2 - 3)<sup>2</sup> =

- A. 7
- B. 12
- C. -12
- D. -1
- E. 1

### 215. Evaluate the following:

$$\frac{3(2+1)^2+5^2}{4-3^2}$$

- A. -7.4
- B. -10.4
- C. -14.8
- D. 10.4
- E. 7.4

216.Evaluate 
$$3(8 - 4)^2 \times (2 - 3)^2 =$$

- A. 400
- B. -400
- C. 48
- D. -48
- E. 93

## 217.Evaluate $3[4 + (5 - 3)^2]^2 =$

- A. 256
- B. 38,416
- C. 3600
- D. 192
- E. 576

218.Evaluate 
$$(2 - 3 \times 4)^2 - 5 \times (5 - 6)^2 =$$

- A. 11
- B. 125
- C. -21
- D. 95
- E. 395

219. 
$$$1200 \left(1 + .0625 \times \frac{7}{12}\right)$$

- A. \$743.75
- B. \$1725.00
- C. \$700.04
- D. \$1637.50
- E. \$1243.75

$$$1000 \left(1 + .045 \times \frac{17}{12}\right)$$

A. \$1063.75

Evaluate

B. \$1416.73

C. \$1765.00

D. \$1637.50

E. \$1480.42

#### 221.

$$$750 \left(1 - .0575 \times \frac{150}{365}\right)$$

Evaluate

A. \$749.98

B. \$732.28

C. \$308.20

D. \$572.77

E. \$767.72

#### 222.

$$$650 \left(1 - .0625 \times \frac{21}{12}\right)$$

Evaluate

B. \$721.09

C. \$578.91

D. \$446.88

E. \$576.06

$$\frac{\$1050}{\left(1 + \frac{0.065}{12}\right)^3}$$

Evaluate

- A. \$1067.16
- B. \$1035.95
- C. \$896.32
- D. \$1033.12 E. \$1502.05

$$\frac{\$25,000}{\left(1 + \frac{0.07}{12}\right)^4}$$

Evaluate

- A. \$25,588.46
- B. \$19,927.38
- C. \$19,072.38
- D. \$24,855.01
- E. \$24,425.08

#### 225.

$$\frac{\$1500\left(1+0.055\times\frac{3}{12}\right)}{1+0.10\times\frac{9}{12}}$$

- A. \$1414.53
- B. \$1843.18
- C. \$348.85
- D. \$454.56
- E. \$1625.58

$$\frac{\$1750\left(1+\frac{0.11}{4}\right)^3}{1+0.075\times\frac{275}{365}}$$

Evaluate

- A. \$1701.95
- B. \$1796.85
- C. \$2265.35
- D. \$1897.86
- E. \$2392.70

227.

$$\$20,000 \left\lceil \frac{\left(1 + \frac{0.05}{2}\right)^4 - 1}{\frac{0.05}{2}} \right\rceil$$

- A. \$172,405.00
- B. \$82,207.63
- C. \$83,050.31
- D. \$41,525.16
- E. \$86,202.50

$$\$675 \left[ \frac{\left(1 + \frac{0.065}{4}\right)^6 - 1}{\frac{0.065}{4}} \right]$$

Evaluate

- A. \$2766.53
- B. \$1054.53
- C. \$19,072.06
- D. \$4218.14
- E. \$45,756.60

229.

$$\frac{\frac{\$900}{\left(1 + \frac{0.055}{4}\right)^7 - 1}}{\frac{0.055}{4}}$$

- A. \$493.46
- B. \$27.22
- C. \$900.00
- D. \$84.52
- E. \$123.36

$$\cfrac{\cfrac{\$2500}{\cfrac{\left(1-\cfrac{0.065}{2}\right)^4+1}}{\cfrac{0.065}{2}}$$

Evaluate

- A. \$43.31
- B. \$38.03
- C. \$86.61
- D. \$83.98
- E. \$48.51

231.

$$\$110 \left[ 1 - \frac{3}{\left( 1 + \frac{0.085}{12} \right)^5} \right] - \frac{\left( 1 + \frac{0.085}{12} \right)^4}{\frac{0.085}{12}}$$

- A. -\$404.21
- B. -\$353.78
- C. -\$185.74
- D. -\$208.56
- E. -\$145.22

$$\$1500 \left[ 1 + \frac{1}{\left(1 - \frac{0.04}{12}\right)^3} \right] - \frac{\left(1 + \frac{0.04}{12}\right)^3}{\frac{0.04}{12}}$$

Evaluate

- A. \$1489.85
- B. \$2892.41
- C. \$2712.09
- D. \$1177.64
- E. \$1818.11

233. What amount is 230% of \$450?

- A. \$103,500
- B. \$1.035
- C. \$51.11
- D. \$1035
- E. \$195.65

234. What amount is 0.04% of \$200,000?

- A. \$8000
- B. \$800
- C. \$8
- D. \$.80
- E. \$80

### 235.4.9% of \$2750 is what amount?

- A. \$134.75
- B. \$13,475
- C. \$2,884.75
- D. \$13.48
- E. \$284.48

#### 236.What is 0.05% of \$9100?

- A. \$455.00
- B. \$4.55
- C. \$4550.00
- D. \$45.50
- E. \$0.455.

### 237. What is 13.5% of \$5000?

- A. \$67.5
- B. \$6.75
- C. \$675
- D. \$6,750.00
- E. \$0.675

### 238.What is 2500% of \$1625?

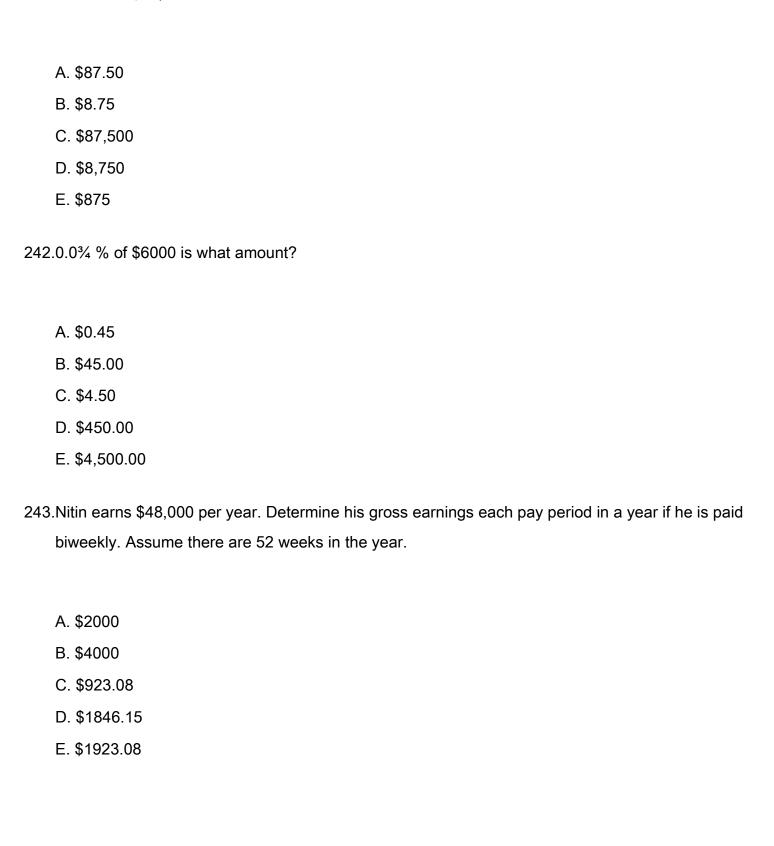
A. \$4,0625
B. \$406.25
C. \$40.63
D. \$40,625
E. \$4,062

## 239.78% of \$249.60 is what amount?

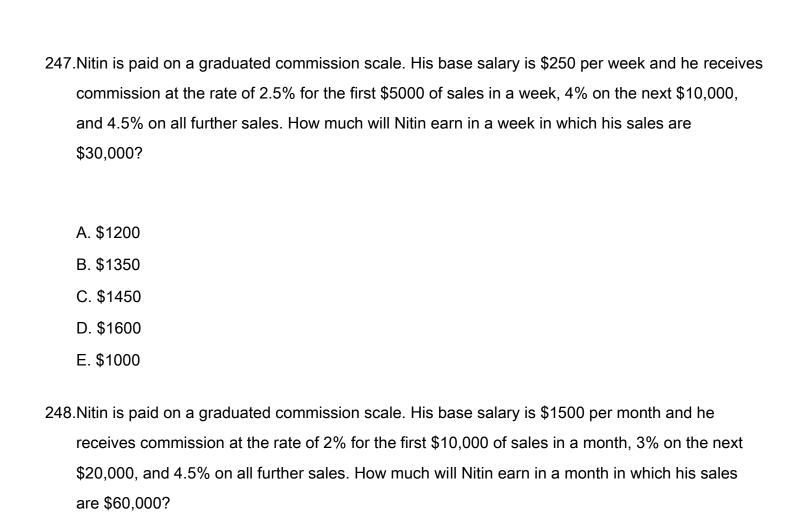
- A. \$151.86
- B. \$269.07
- C. \$26.91
- D. \$19.47
- E. \$194.69

#### 240.24% of \$675 is what amount?

- A. \$162
- B. \$16.88
- C. \$691.20
- D. \$123.12
- E. \$389.88



244.Nitin earns \$48,000 per year	ar for a forty-hour work week. Determine his hourly rate of pay if he is
paid biweekly. Assume the	re are 52 weeks in the year.
A. \$250.00	
B. \$24.04	
C. \$46.50	
D. \$50.00	
E. \$23.08	
245.Nitin is paid a base salary of	of \$200 per week and commission at the rate of 3% for sales over
\$5000, 4% if his sales are of	over \$8000, and 5% if sales are over \$15,000. How much will Nitin
earn in a week in which his	sales are \$20,000?
A. \$1200	
B. \$1000	
C. \$800	
D. \$600	
E. \$200	
246.Nitin is paid a base salary of	of \$300 per week and commission at the rate of 2.5% for sales over
\$5000, 4% if his sales are o	over \$10,000, and 4.5% if sales are over \$25,000. How much will Nitin
earn in a week in which his	sales are \$20,000?
A. \$800	
B. \$1100	
C. \$900	
D. \$1200	
E. \$1125	



A. \$2150

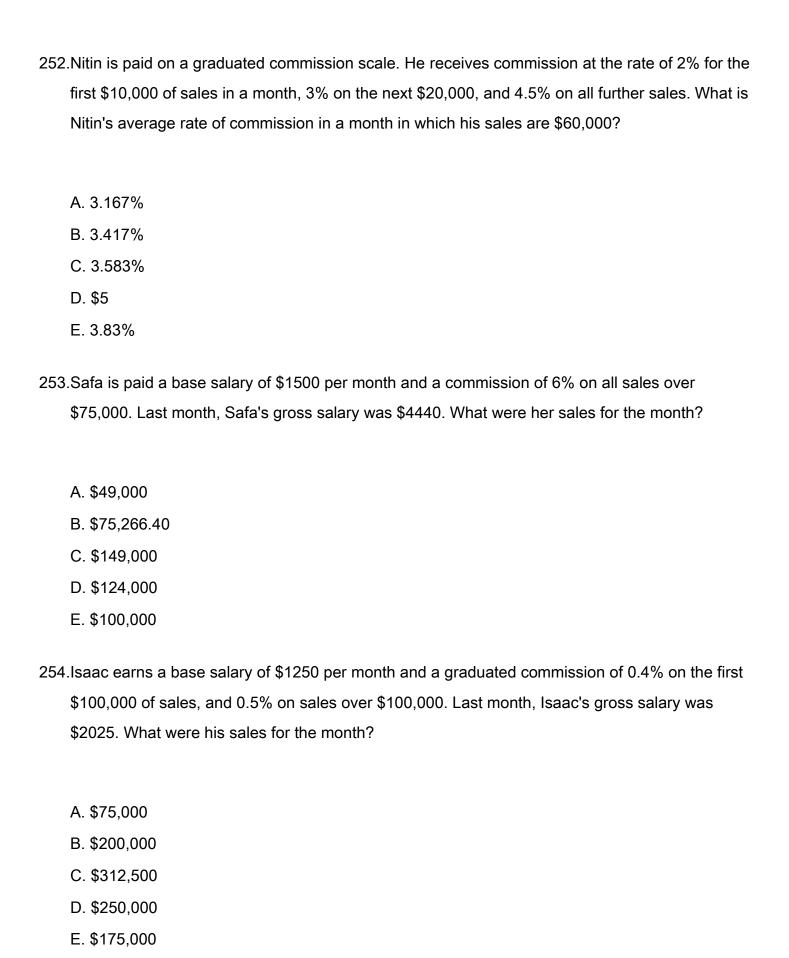
B. \$2250

C. \$3750

D. \$3650

E. \$2500

249.A sales representative is paid the greater of \$950 or 8% of sales. At what volume of sales will he
start to earn more from the commission-based compensation?
A \$0500
A. \$9500
B. \$1026
C. \$1875
D. \$1187.50
E. \$11,875
250.A sales representative is paid the greater of \$1275 per week or 9% of sales. At what volume of
sales will she start to earn more from the commission-based compensation?
cares will one start to carri more from the commission based compensation.
A. \$14,166.67
B. \$1389.75
C. \$2295
D. \$2422.50
E. \$12,750
251.Nitin is paid on a graduated commission scale. He receives commission at the rate of 2.5% for
the first \$5000 of sales in a week, 4% on the next \$10,000, and 4.5% on all further sales. What is
Nitin's average rate of commission in a week in which his sales are \$30,000?
A 0 070/
A. 3.67%
B. 4%
C. 3.33%
D. 3.75%
E. 4.25%



255. Elita took six courses last semester. Her grades and course credits are as follows:

Course	Grade	Credits
Accounting	B+	4
Business Mathematics	A	4
Human Resources	В	3
Economics	C+	4
Computer Applications	C	2
Marketing	D	3

Use the Letter Grade to Grade Point Value conversion table below to calculate her grade point average for the semester.

Letter Grade	Grade Points
A+	4.0
A	4.0
B+	3.5
В	3.0
C+	2.5
C	2.0
D	1.0
F	0.0

- A. 2.8
- B. 2.7
- C. 3.3
- D. 3.0
- E. 3.5

256. Jayelle took six courses last semester. Her grades and course credits are as follows:

Course	Grade	Credits
Finance	B+	4
Statistics	С	2
General Education	B+	3
Macro Economics	В	3
Cost Accounting	В	4
Computer Applications	A+	2

Use the Letter Grade to Grade Point Value conversion table below to calculate her grade point average for the semester.

Letter Grade	Grade Points
A+	4.0
A	4.0
B+	3.5
В	3.0
C+	2.5
С	2.0
D	1.0
F	0.0

- A. 3.75
- B. 3.2
- C. 3.0
- D. 2.6
- E. 2.8

257	7.Kuldip invested \$5000 at 6%, \$10,000 at 5.5%, and \$20,000 at 4%. What is the average rate of
	interest earned by her investments?
	A. 5.2%
	B. 5%
	C. 4.7%
	D. 5.25%
	E. 4.75%
258	3.Carlos invested \$10,000 at 7%, \$20,000 at 6.5%, and \$50,000 at 5%. What is the average rate of
	interest earned by his investments?
	A. 6.2%
	B. 5.5%
	C. 5.8%
	D. 5.6%
	E. 6.3%
259	0.A customer has a first mortgage of \$100,000 at 5.5% and a second mortgage of \$50,000 at
	7.8%. What is the average rate of mortgage that the customer pays?
	A. 6.7%
	B. 7%
	C. 5.9%
	D. 6.5%
	E. 6.3%

260.A client has a first mortgage of \$175,000 at 5.8% and a second mortgage of \$25,000 at 6.7%.	
What is the average rate of mortgage that the client pays?	
A. 5.9%	
B. 6.3%	
C. 6.5%	
D. 6%	
E. 6.2%	
261.Sonal bought a coat for \$198.88, which included 8% PST and 5% GST. What was the selling	
price of the coat?	
A. \$175.38	
B. \$176.00	
C. \$173.03	
D. \$182.97	
E. \$179.99	
262.Sonal bought a new sound system for her car costing \$604.79. Sonal lives in Calgary, and so the	ıe
price included 5% GST. What was the selling price of the new sound system?	
A. \$573.17	
B. \$574.58	
C. \$575.99	
D. \$616.31	
E. \$570.66	

263.Calculate the PST on a sweater costing \$59.95 in Manitoba, Alberta, and Quebec. (Assume 5% GST).

A. \$4.77; \$0.00; \$5.98

B. \$4.80; \$4.77; \$4.50

C. \$4.80; \$4.50; \$4.77

D. \$4.80; \$0.00; \$5.98

E. \$4.77; \$0.00; \$4.20

264. Calculate the PST on a jacket costing \$89.50 in Alberta, Manitoba, and Saskatchewan.

A. \$0.00; \$5.71; \$6.27

B. \$6.27; \$6.27; \$4.48

C. \$5.37; \$7.16; \$5.27

D. \$6.27; \$6.27; \$5.37

E. \$0.00; \$7.16; \$4.48

265.M Studios (Calgary) had retail sales of \$166,425, including GST, for the last quarter. In the same period M Studios purchased \$45,000 worth of supplies and paid \$75,000 for store renovations, plus the GST on these goods and services. What GST must be remitted by M Studios (or refunded) for the last quarter? (Assume GST = 5%).

- A. \$1925
- B. \$2321.25
- C. \$14,323.26
- D. \$6071.25
- E. \$4573.26

266.M Studios (Ontario) had retail sales of \$288,528.55, including HST, for the last quarter. In the same period M Studios purchased \$250,000 worth of supplies and paid the GST on these goods. What GST must be remitted by M Studios (or refunded) for the last quarter? (Assume 8% PST and 5% GST).

- A. \$50.99
- B. \$266.75
- C. \$1926.43
- D. \$426.80
- E. \$5008.71

267.A homeowner's tax statement lists the following mill rates for various municipal services:

Tax Rate	Mill Rate
Schools	6.75
City	7.21
Water	0.92
Sewers	0.87

What is the property tax on a house assessed at \$300,000?

- A. \$4464
- B. \$4449
- C. \$4725
- D. \$2562
- E. \$2700

268.A homeowner's tax statement lists the following mill rates for various municipal services:

Tax Rate	Mill Rate
Schools	6.75
City	7.21
Water	0.92
Sewers	0.87

The homeowner paid \$3937.50 in property taxes last year. What is the assessed value of his property?

- A. \$264,617
- B. \$265,509
- C. \$461,066
- D. \$250,000
- E. \$437,500

269.

$$\frac{\frac{3}{4} + \frac{7}{5}}{\frac{11}{6} - \frac{10}{12}} =$$

- A. 0.465
- B. 0.80625
- C. 1.24031
- D. 12.9
- E. 2.15

## 270.(8 - 5 / 2) / (12 \* 3 - 6)

- A. 5.4545
- B. 0.05
- C. -0.1528
- D. 6.5454
- E. 0.1833

271.Evaluate 0.5 × 0.001 =

- A. 0.0005
- B. 0.005
- C.  $\frac{51}{10,000}$
- D.  $\frac{3}{2000}$
- E. 5000

272. 
$$\frac{\frac{6}{7} + \frac{2}{3}}{\frac{3}{7}}$$
 Evaluate

- A. 24.89
- B. 3.556
- C. 4.190
- D. 6.429
- E. 5.071

273.Evaluate (8 / 5 - 2) / (12 - 2 - 4) =

- A. 2.4
- B. -0.067
- C. -2.4
- D. 0.444
- E. -I.0

274.Evaluate -14(2) + 16 / 32 + 4 =

- A. -22
- B.  $-24\frac{1}{2}$
- C.  $-28\frac{4}{9}$
- D.  $-24\frac{4}{9}$
- E.  $-23\frac{1}{2}$

275.Evaluate  $(25 - 9) / (6 - 2)^2 =$ 

- A. 256
- B. 1
- C. 8
- D. 4
- E. 0.5

$$\frac{5 - (6 - 14)}{200 - 0.25 \times \frac{3000}{15}}$$

Evaluate

- A. 0.1267
- B. 0.052
- C. 0.0867
- D. 0.076
- E. -0.07667

$$16 - 4\left(1 - 0.3 \div \frac{435}{650}\right) =$$

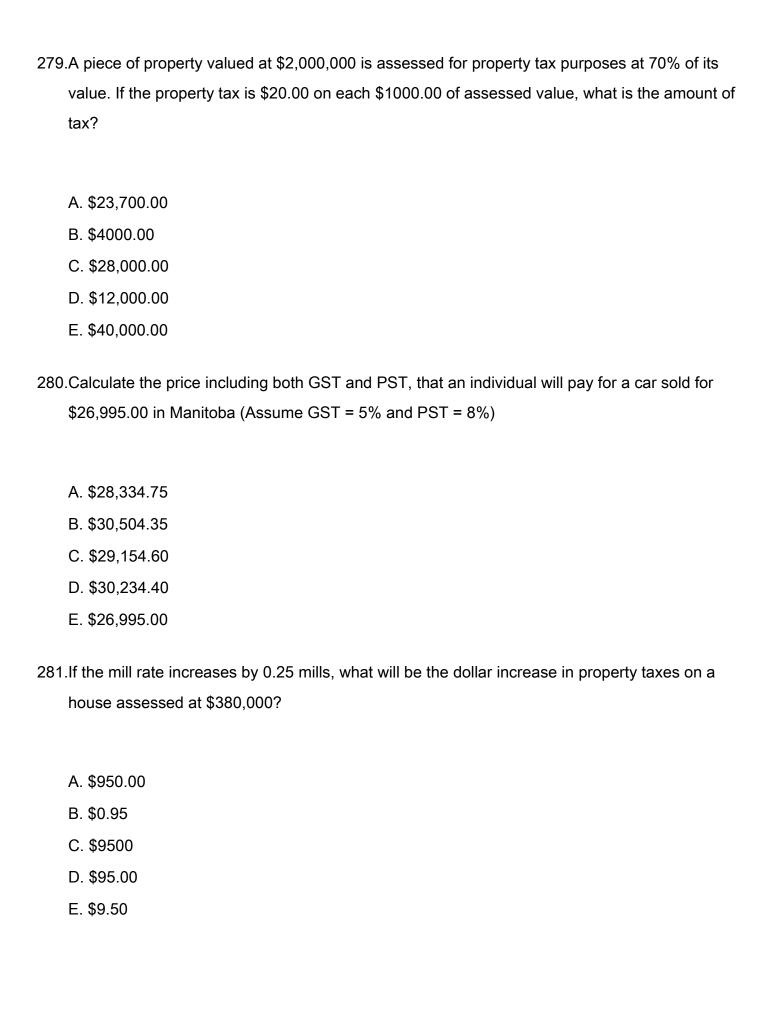
Evaluate

- A. 6.621
- B. 17.379
- C. 13.793
- D. 10.207
- E. 12.803

278.

Express as a percent:

- A. 50.375%
- B. 0.0050375%
- C. 0.50375%
- D. 5.0375%
- E. 503.75%



282.Fred has an annual salary of \$40,000.00. He is paid semi-monthly and his regular workweek is 40 hours. What is his regular salary per pay period?

A.	\$1538.46	46	
----	-----------	----	--

B. \$1458.33

C. \$3076.92

D. \$1666.67

E. \$3333.33

283.A class of 25 students wrote a term test. The results out of 30 marks are as follows:

Score:	10	15	20	25	30
Number of Students:	2	3	10	6	4

What was the average score on the test?

- A. 20
- B. 25
- C. 22
- D. 21.4
- E. 17.5

284.An investor purchased shares of Acme Company as follows: 500 shares @ \$10 per share, 10,000 shares @ \$6.00 per share, and 1000 shares at \$4.00 per share. What is the investor's average cost per share?

- A. \$7.00
- B. \$6.00
- C. \$6.67
- D. \$23,000
- E. \$6.50

A municipality requires an extra \$3,000,000 for its operating budget next year. The current mill rate is 8.3573 and the assessed values of properties in the municipality remains constant at \$8.58 billion.

285. Calculate next year's mill rate.

- A. 8.3497
- B. 8.3923
- C. 11.8538
- D. 9.7684
- E. 8.7070

286.If the total of all assessed values rises by 5% over the current assessment, at what value must
next year's mill rate be set?
A. 8.6903
B. 8.2923
C. 7.9923
D. 9.7684
E. 8.3906
Fred is paid an annual salary of \$45,800 on a biweekly schedule for a 40-hour work week and 26
biweekly periods per year.
287.What is his gross salary per pay period?
A. \$1908.33
B. \$1815.93
C. \$1616.18
D. \$1755.51
E. \$1761.54
288.What is his hourly pay rate?
A. \$44.44
B. \$43.89
C. \$47.71
D. \$44.04
E. \$38.76

289. What is his total remuneration for a two-week period in which he worked 4.5 hours overtime at
time-and-a-half?
A. \$2058.81
B. \$2230.36
C. \$1858.23
D. \$1953.02
E. \$2051.75
Store A sold 30 units at \$1.25 per unit.
Store B sold 60 units at \$1.95 per unit.
Store C sold 9 units at \$1.50 per unit.
290.Ignoring the quantities sold, what was the average unit selling price for the three stores?
A. \$0.33
B. \$1.57
C. \$155.10
D. \$51.70
E. \$1.70
291.Recognizing the quantities sold, what was the average selling price per unit?
A. \$0.33
B. \$1.57
C. \$155.10
D. \$51.70
E. \$1.70

## c1 Key

1.	Evaluate the following accurate to the cent: 20 - 4 × 2 - 8
	4
	Difficulty: Easy Jerome - Chapter 01 #1 Learning Objective: 01-01 Perform arithmetic operations in their proper order. Source: Student text Topic: Basic Mathematics Type: Wora
2.	Evaluate the following accurate to the cent: 18 , 3 + 6 × 2
	18
	Difficulty: Easy Jerome - Chapter 01 #2 Learning Objective: 01-01 Perform arithmetic operations in their proper order. Source: Student text Topic: Basic Mathematics
3.	Evaluate the following accurate to the cent: (20 - 4) × 2 - 8

24

Source: Student text

Topic: Basic Mathematics

Type: Wora

4. Evaluate the following:  $18 (3 + 6) \times 2$ 

4

Difficulty: Easy

Jerome - Chapter 01 #4

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

5. Evaluate the following:  $20 - (4 \times 2 - 8)$ 

20

Difficulty: Easy

Jerome - Chapter 01 #5

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

6. Evaluate the following:  $(18 \ 3 + 6) \times 2$ 

24

Jerome -	Chanter	01	#/

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

7. Evaluate the following: 54 - 36,  $4 + 2^2$ 

49

Difficulty: Easy

Jerome - Chapter 01 #7

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

8. Evaluate the following:  $(5 + 3)^2 - 3^2$ , 9 + 3

66

Difficulty: Easy

Jerome - Chapter 01 #8

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

9. Evaluate the following: (54 - 36),  $(4 + 2)^2$ 

Jerome - Chapter 01 #9

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

10. Evaluate the following:  $5 + (3^2 - 3)^2$ , (9 + 3)

8

Difficulty: Easy

Jerome - Chapter 01 #10

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

11. Evaluate the following: 
$$\frac{8^2 - 4^2}{(4-2)^3}$$

6

Difficulty: Easy

Jerome - Chapter 01 #11

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

12.  $\frac{(8-4)^{2}}{4-2^{3}}$  Evaluate the following:

-4

Difficulty: Easy

Jerome - Chapter 01 #12

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

13. Evaluate the following:  $3(6 + 4)^2 - 5(17 - 20)^2$ 

255

Difficulty: Medium

Jerome - Chapter 01 #13

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

14. Evaluate the following:  $(4 \times 3 - 2)^2$ ,  $(4 - 3 \times 2^2)$ 

-12.5

Difficulty: Medium

Jerome - Chapter 01 #14

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

15. Evaluate the following:  $[(20 + 8 \times 5) - 7 \times (-3)]$ , 9

9

Difficulty: Medium

Jerome - Chapter 01 #15

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

16. Evaluate the following:  $5[19 + (5^2 - 16)^2]^2$ 

50,000

Difficulty: Medium

Jerome - Chapter 01 #16

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

17.

$$$100 \left(1 + 0.06 \times \frac{45}{365}\right)$$

Evaluate the following accurate to the cent:

\$100.74

Difficulty: Medium

Jerome - Chapter 01 #17

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Type: Wora

 $\frac{\$200}{1 + 0.09 \times \frac{4}{12}}$ 18.

Evaluate the following accurate to the cent:

\$194.17

Difficulty: Medium

Jerome - Chapter 01 #18

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

19. \$500  $\overline{(1+0.05)^2}$ Evaluate the following accurate to the cent:

\$453.51

Difficulty: Medium

Jerome - Chapter 01 #19

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

20. Evaluate the following accurate to the cent:  $$1000(1+0.02)^3$ 

\$1,061.21

Difficulty: Medium

Jerome - Chapter 01 #20

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

21.

$$100 \left( \frac{\left(1+0.04\right)^2 - 1}{0.04} \right)$$

Evaluate the following accurate to the cent:

\$204.00

Difficulty: Medium

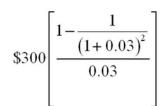
Jerome - Chapter 01 #21

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

22.



Evaluate the following accurate to the cent:

\$574.04

Difficulty: Haro

Jerome - Chapter 01 #22

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

- 23. If you want four-figure accuracy in your answer, what minimum number of figures must be retained in the values used in the calculations? A) 4 B) 5 C) 6
  - B: five figures

Difficulty: Easy

Jerome - Chapter 01 #23

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Concept

24.	For a final result of approximately \$7000 to be accurate to the cent, what minimum number of						
	figures must be maintained in the values used in the calculations? A) 6 B) 7 C) 8						
	B: seven figures						
	Difficulty: Easy						
	Jerome - Chapter 01 #24						
	Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.  Learning Objective: 01-03 Maintain the proper number of digits in calculations.						
	Source: Student text						
	Topic: Basic Mathematics						
	Туре: Concept						
25.	If a final result of the order of five million dollars is to be accurate to the nearest dollar, what						
	minimum number of figures must be maintained in the calculations? A) 6 B) 7 C) 8						
	C: eight figures						
	Difficulty: Easy						
	Jerome - Chapter 01 #25						
	Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.						
	Learning Objective: 01-03 Maintain the proper number of digits in calculations.						
	Source: Student text						
	Topic: Basic Mathematics Туре: Concept						
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						

26.	If an interest rate (which could be greater than 10%) is to be calculated to the nearest 0.01%,
	what minimum number of digits must be retained in the numbers used to calculate the interest
	rate? A) 3 B) 4 C) 5

C: five figures

Difficulty: Easy

Jerome - Chapter 01 #26

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Concept

27. The following fraction has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $\frac{7}{8}$ 

0.875 = 87.500%

Difficulty: Easy

Jerome - Chapter 01 #27

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

The following fraction has a terminating decimal equivalent form. Express its decimal and  $\frac{65}{104}$  percent equivalent forms to five-figure accuracy:

0.625 = 62.500%

Difficulty: Easy

Jerome - Chapter 01 #28

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

29. The following fraction has a terminating decimal equivalent form. Express its decimal and 47

percent equivalent forms to five-figure accuracy: 20

2.35 = 235.00%

Difficulty: Easy

Jerome - Chapter 01 #29

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

30. The following fraction has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $-\frac{9}{16}$ 

-0.5625 = -56.25%

Difficulty: Easy

Jerome - Chapter 01 #30

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

31. The following fraction has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $\frac{-35}{25}$ 

-1.4 = -140.00%

Difficulty: Easy

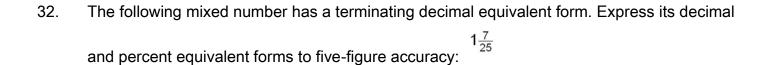
Jerome - Chapter 01 #31

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



1.28 = 128.00%

Difficulty: Easy

Jerome - Chapter 01 #32

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

33. The following fraction has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $\frac{25}{1000}$ 

0.025 = 2.5000%

Difficulty: Easy

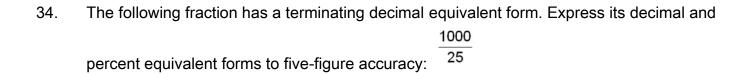
Jerome - Chapter 01 #33

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



40 = 4000.0%

Difficulty: Easy

Jerome - Chapter 01 #34

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

35. The following mixed number has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $2\frac{2}{100}$ 

2.02 = 202.00%

Difficulty: Easy

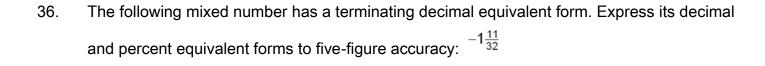
Jerome - Chapter 01 #35

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



$$-1.34375 = -134.38\%$$

Difficulty: Easy

Jerome - Chapter 01 #36

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

37. The following fraction has a terminating decimal equivalent form. Express its decimal and

percent equivalent forms to five-figure accuracy: 50

$$.75 = 75.000\%$$

Difficulty: Easy

Jerome - Chapter 01 #37

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

38. The following fraction has a terminating decimal equivalent form. Express its decimal and percent equivalent forms to five-figure accuracy:  $\frac{22.5}{-12}$ 

$$-1.875 = -187.5\%$$

Jerome - Chapter 01 #38

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

39. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of

 $\frac{5}{6}$  decimal places needed to display the repeating digit or group of digits.

$$0.8 \ \bar{3} = 83. \ \bar{3} \%$$

Difficulty: Easy

Jerome - Chapter 01 #39

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

40. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits. 
$$-\frac{8}{3}$$

$$-2.$$
  $\overline{6} = -266.$   $\overline{6}$  %

Difficulty: Easy Jerome - Chapter 01 #40

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

The following mixed number has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits.  $7\frac{7}{9}$ 

$$7 \bar{7} = 777 \bar{7} \%$$

Difficulty: Easy

Jerome - Chapter 01 #41

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

1. 
$$\overline{09} = 109$$
.  $\overline{09}$  %

Difficulty: Easy

Jerome - Chapter 01 #42

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

43. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits.  $\frac{10}{9}$ 

1. 
$$\bar{1} = 111$$
.  $\bar{1} \%$ 

Difficulty: Easy

Jerome - Chapter 01 #43

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

44. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits.  $\frac{-4}{900}$ 

$$-0.00 \overline{4} = -0. \overline{4} \%$$

Difficulty: Easy

Jerome - Chapter 01 #44

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

45. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits.  $-\frac{7}{270}$ 

$$_{-0.0}$$
  $\overline{259} = _{-2.59}$   $\overline{259}$  %

Difficulty: Easy

Jerome - Chapter 01 #45

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

- 46. The following fraction has a repeating decimal equivalent form. Express the decimal and percent equivalent form in the repeating decimal notation. Show just the minimum number of decimal places needed to display the repeating digit or group of digits.  $\frac{37}{27}$ 
  - 1.  $\overline{370} = 137$ .  $\overline{037}$  %

Difficulty: Easy

Jerome - Chapter 01 #46

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Topic: Basic Mathematics

Source: Student text

Type: Wora

- 47. Round the following to four-figure accuracy: 11.3845
  - 11.38

Difficulty: Easy

Jerome - Chapter 01 #47

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

48. Round the following to four-figure accuracy: 9.6455

	Learning Objective: 01-03	B Maintain the prope	r number of diaits it	n calculations
--	---------------------------	----------------------	-----------------------	----------------

Source: Student text

Topic: Basic Mathematics

Type: Wora

49. Round the following to four-figure accuracy: 0.5545454

0.5545

Difficulty: Easy

Jerome - Chapter 01 #49

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

50. Round the following to four-figure accuracy: 1000.49

1000

Difficulty: Easy

Jerome - Chapter 01 #50

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

51. Round the following to four-figure accuracy: 1.0023456

Learning Ob	iective:	01_03	Maintain	the nrc	ner num	her of d	iaite in	calculation	10
Learning OU	ijective. i	01-03	iviaii ilaii i	uie pic	ip <del>e</del> i mumi	Jei Oi ui	yus III	caiculatioi	15.

Source: Student text

Topic: Basic Mathematics

Type: Wora

52. Round the following to four-figure accuracy: 0.030405

0.03041

Difficulty: Easy

Jerome - Chapter 01 #52

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

53. Round the following to four-figure accuracy: 40.09515

40.10

Difficulty: Easy

Jerome - Chapter 01 #53

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

54. Round the following to four-figure accuracy: 0.0090909

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

55. Convert the following fraction to its decimal equivalent and percent equivalent values, rounded

to five figures:  $\frac{1}{6}$ 

0.16667 = 16.667%

Difficulty: Easy

Jerome - Chapter 01 #55

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

56. Convert the following fraction to its decimal equivalent and percent equivalent values, rounded

7

to five figures:  $\overline{6}$ 

1.1667 = 116.67%

Difficulty: Easy

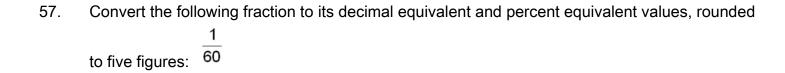
Jerome - Chapter 01 #56

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



$$0.016667 = 1.6667\%$$

Difficulty: Easy

Jerome - Chapter 01 #57

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

er or digits in calculations. Source: Student text

Topic: Basic Mathematics

Type: Wora

58. Convert the following mixed number to its decimal equivalent and percent equivalent values,  $2^{\frac{5}{2}}$ 

rounded to five figures:

2.5556 = 255.56%

Difficulty: Easy

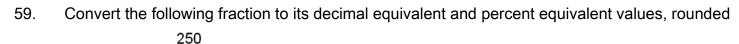
Jerome - Chapter 01 #58

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



to five figures: 365

0.68493 = 68.493%

Difficulty: Easy

Jerome - Chapter 01 #59

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

60. Convert the following fraction to its decimal equivalent and percent equivalent values, rounded

15 365

to five figures:

0.041096 = 4.1096%

Difficulty: Easy

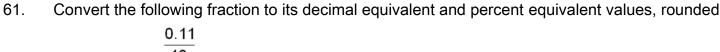
Jerome - Chapter 01 #60

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



0.0091667 = 0.91667%

Difficulty: Easy

Jerome - Chapter 01 #61

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

62. Convert the following fraction to its decimal equivalent and percent equivalent values, rounded

to five figures:

0.0079167 = 0.79167%

Difficulty: Easy

Jerome - Chapter 01 #62

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



 $$92 \left(1+0.095 \times \frac{112}{365}\right)$ 

Evaluate the following accurate to the nearest cent:

\$94.68

Difficulty: Easy

Jerome - Chapter 01 #63

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

64.

$$100 \left(1+0.11 \times \frac{5}{12}\right)$$

Evaluate the following accurate to the nearest cent:

\$104.58

Difficulty: Easy

Jerome - Chapter 01 #64

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



 $454.76 \left(1-0.105 \times \frac{11}{12}\right)$ 

Evaluate the following accurate to the nearest cent:

\$410.99

Difficulty: Easy

Jerome - Chapter 01 #65

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

66.

 $\frac{\$790.84}{1+0.13 \times \frac{311}{365}}$ 

Evaluate the following accurate to the nearest cent:

\$711.98

Difficulty: Easy

Jerome - Chapter 01 #66

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



 $\frac{\$3490}{1+0.125\times\frac{91}{365}}$ 

Evaluate the following accurate to the nearest cent:

\$3384.52

Difficulty: Easy

Jerome - Chapter 01 #67

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

68.

 $\frac{\$10,000}{1-0.10\times\frac{182}{365}}$ 

Evaluate the following accurate to the nearest cent:

\$10,524.80

Difficulty: Easy

Jerome - Chapter 01 #68

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics



$$650\left(1+\frac{0.105}{2}\right)^2$$

Evaluate the following accurate to the nearest cent:

\$720.04

Difficulty: Easy

Jerome - Chapter 01 #69

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

70.

$$$950.75 \left(1 - \frac{0.095}{4}\right)^2$$

Evaluate the following accurate to the nearest cent:

\$906.13

Difficulty: Easy

Jerome - Chapter 01 #70

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

$$\frac{\$15,400}{\left(1+\frac{0.13}{12}\right)^6}$$

Evaluate the following accurate to the nearest cent:

\$14,435.88

Difficulty: Easy

Jerome - Chapter 01 #71

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

72.

$$\frac{\$550}{\left(1+\frac{0.115}{2}\right)^4}$$

Evaluate the following accurate to the nearest cent:

\$439.79

Difficulty: Easy

Jerome - Chapter 01 #72

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

What is 33  $\frac{1}{3}\%$  of \$1527? 73. \$509.00 Difficulty: Easy Jerome - Chapter 01 #73 Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents. Source: Student text Topic: Basic Mathematics Type: Wora 74. What is 2.75% of \$2.75? \$0.08 Difficulty: Easy Jerome - Chapter 01 #74 Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents. Source: Student text Topic: Basic Mathematics Type: Wora What amount is 250% of \$25? 75. \$62.50 Difficulty: Easy Jerome - Chapter 01 #75

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

76.	0.025% of \$200 is what amount?	
	\$0.05	
77.	How much is $\frac{1}{2}\%$ of \$30?	Difficulty: Easy Jerome - Chapter 01 #76 ning Objective: 01-04 Perform calculations using fractions; decimals; and percents. Source: Student text Topic: Basic Mathematics Type: Word
	\$0.15	
	Learn	Difficulty: Easy Jerome - Chapter 01 #77 ning Objective: 01-04 Perform calculations using fractions; decimals; and percents. Source: Student text Topic: Basic Mathematics Type: Wora
78.		est for a vacation in Cuba to be \$14,775. If 53% of this and 42% is for meals, how much money will they be

\$738.75

Difficulty: Medium

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

Type: Wora

79. In the month of July, a convenience store had total sales of \$102,300 from its gas pumps and other in-store products. If HST is 13% of sales, how much HST was collected on the in-store products if these sales represent 36% of total sales?

\$4,787.64

Difficulty: Medium

Jerome - Chapter 01 #79

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

Type: Wora

In a basketball game, the Langara College Falcons scored  $54.\overline{54}\%$  of 33 shots from the 2-point zone,  $46.\overline{6}\%$  of 15 attempts from the 3-point distance, and 79.3% of 29 free throws (1 point each). How many points did the Falcons score?

80

Difficulty: Medium

Jerome - Chapter 01 #80

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

$$\frac{\$6600 \left(1+0.085 \times \frac{153}{365}\right)}{1+0.125 \times \frac{82}{365}}$$

Evaluate the following accurate to the nearest cent:

\$6648.46

Difficulty: Medium

Jerome - Chapter 01 #81

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

82.

$$\frac{\$780 \Big(1 + \frac{0.0825}{2}\Big)^5}{\Big(1 + \frac{0.10}{12}\Big)^8}$$

Evaluate the following accurate to the nearest cent:

\$893.38

Difficulty: Medium

Jerome - Chapter 01 #82

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

$$\$1000 \left\lceil \frac{\left(1 + \frac{0.09}{12}\right)^7 - 1}{\frac{0.09}{12}} \right\rceil$$

Evaluate the following accurate to the nearest cent:

\$7159.48

Difficulty: Medium

Jerome - Chapter 01 #83

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

84.

$$\frac{\$350}{\frac{0.0975}{12}} \left[ 1 - \frac{1}{\left(1 + \frac{0.0975}{12}\right)^5} \right]$$

Evaluate the following accurate to the nearest cent:

\$1708.14

Difficulty: Medium

Jerome - Chapter 01 #84

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

$$\frac{\$9500}{\frac{\left(1+\frac{0.075}{4}\right)^5-1}{\frac{0.075}{4}}}$$

Evaluate the following accurate to the nearest cent:

\$1830.07

Difficulty: Medium

Jerome - Chapter 01 #85

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

Type: Wora

## 86. Evaluate the following accurate to the nearest cent:

$$\$45 \frac{\left[1 - \frac{1}{\left(1 + \frac{0.0837}{2}\right)^4}\right]}{\frac{0.0837}{2}} + \frac{\$1000}{\left(1 + \frac{0.0837}{2}\right)^4}$$

\$1011.38

Difficulty: Medium

Jerome - Chapter 01 #86

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Student text

Topic: Basic Mathematics

87.	The Calgary Flames hockey team announced that its season's ticket sales represent 67.50%				
	of the Scotiabank Saddledome's seating capacity of 19,289 seats. Rounded to the nearest				
	100, how many seats were not sold to season's ticket holders?				

6300 (rounded to the nearest 100)

Difficulty: Medium

Jerome - Chapter 01 #87

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

Type: Wora

88. The Royal Canadian Mint sells one troy ounce (31.16 grams) platinum collector coins of 99.95% purity. How many milligrams of impurities are in a single coin?

15.58 mg

Difficulty: Medium

Jerome - Chapter 01 #88

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

89. Stan is a real estate salesperson. He receives 60% of the 4.8% commission that the real estate agency charges on sales. If his sales for the past year were \$5,225,000, what was the dollar value of his commission?

\$150,480

Difficulty: Medium

Jerome - Chapter 01 #89

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

Type: Wora

90. The maximum amount an individual can contribute to her Registered Retirement Savings Plan (RRSP) for a year is set from time to time by the Regulations of the Income Tax Act. For the year 2013, the maximum contribution was the lesser of \$23,820 or 18% of the individual's "earned income" during 2012. What was the maximum RRSP amount that could be contributed in 2013 based on an income of \$128,500 in 2012?

\$23,130

Difficulty: Haro

Jerome - Chapter 01 #90

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

91. Aletta's annual salary of \$58,800 is paid weekly. She is paid at time and a half for any overtime beyond her regular workweek of 35 hours. What is her gross pay for a week in which she works 39 hours?

\$1324.65

Difficulty: Easy

Jerome - Chapter 01 #91

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

92. Lucille receives an annual salary of \$37,500 based on a 37.5-hour workweek. What are her gross earnings for a two-week pay period in which she works 9 hours of overtime at 1½ times her regular rate of pay?

\$1701.92

Difficulty: Easy

Jerome - Chapter 01 #92

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

93. Hasad is paid an annual salary of \$54,600 based on a 40-hour workweek. What is his gross pay for a biweekly pay period if he works 43 hours in the first week and 46.5 hours in the second week? Overtime is paid at time and a half. Assume there are exactly 52 weeks in a year.

\$2474.06

Difficulty: Easy

Jerome - Chapter 01 #93

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

94. Ross's compensation is to be changed from an hourly rate of \$31.50 for a 40-hour week to a salary paid semimonthly. What should he be paid semimonthly in order for his annual earnings to remain the same?

\$2730.00

Difficulty: Easy

Jerome - Chapter 01 #94

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

95. Allison's regular hourly rate of pay is \$17.70. She is paid time and a half for all work on weekends and for any time over 7.5 hours on weekdays. Calculate her gross earnings for a week in which she works 4.5, 0, 7.5, 8.5, 6, 6, and 9 hours on Saturday to Friday, respectively.

\$796.50

Difficulty: Easy

Jerome - Chapter 01 #95

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

96. Sam is paid \$34.50 per hour as a power plant engineer. He is paid 1½ times the regular rate for all time exceeding 8 hours in a day or 40 hours in a week. Statutory holidays worked are paid at double time (in addition to holiday pay). What were his gross earnings for a week in which he clocked 8, 9.5, 8, 8, 10, 0, and 8 hours on Saturday to Friday, respectively, where Monday was a statutory holiday?

\$2389.13

Difficulty: Easy

Jerome - Chapter 01 #96

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

97. Mary sews for a clothing manufacturer. She is paid \$7.50 per hour plus a piece rate that depends on the type of garment in production. The current production run is men's shirts, for which she is paid \$3.00 for each unit exceeding her quota of 20 shirts in an 8-hour shift. What will be her total pay for a regular workweek in which her output on successive days was 24, 26, 27, 28, and 30 shirts?

\$405.00

Difficulty: Easy

Jerome - Chapter 01 #97

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

98. Herb packs fish in 500-g cans on a processing line. He is paid \$8.25 per hour plus \$0.18 per kilogram for production in excess of 500 kg in a 7.5-hour shift. How much will he earn per day if he packs 250 cans per hour?

\$140.63

Difficulty: Medium

Jerome - Chapter 01 #98

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

99. Svetlana is an independent insurance broker placing various clients with any of several

insurance companies. On homeowner insurance policies, each month she receives:

\$20 for each renewal of an existing policy;

\$35 for each policy placed with a new client; and

5.5% of the annual premiums on all policies (new and renewed) written in the month.

In October, she placed 37 new-client policies representing \$14,375 in annual premiums and

126 policy renewals representing \$47,880 in annual premiums. What amount did Svetlana

earn in October?

\$7239.03

Difficulty: Medium

Jerome - Chapter 01 #99

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

100. Hillary sells cosmetics from her part-time home-based business. She receives a straight

commission of 21% from her supplier. At the year-end, she also receives a 7% bonus on sales

exceeding her annual quota of \$100,000. What will her gross annual earnings be for a year in

which her average monthly sales are \$11,000?

\$29,960

Difficulty: Medium

Jerome - Chapter 01 #100

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

101. Manfred is considering job offers of the same type of sales position from two retailers with

similar product lines:

Supreme Audio & Video is offering a base salary of \$2000 per month plus a 4% commission

rate on sales;

Buy-Right Electronics will pay a base salary of \$1500 per month plus commission rates of 3%

on the first \$25,000 of sales and 6% on additional sales in a month.

Based on past experience in similar sales positions, Manfred is confident he can attain

average monthly sales of \$55,000. At this level of sales, what would be his average gross

earnings per month from each retailer?

\$4200 & \$4050

Difficulty: Medium

Jerome - Chapter 01 #101

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

102. A shoe salesman is paid the greater of \$600 per week or 11% of sales. a) What will be his

earnings for a week in which sales are \$5636? b) At what volume of sales per week will he

start to earn more from the commission based compensation?

a) \$619.96 and b) \$5454.55 per week

Difficulty: Hara

Jerome - Chapter 01 #102

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

103. Tom sells mutual funds on a graduated commission structure. He receives 3.3% on the first \$50,000 of sales in a month, 4.4% on the next \$50,000, and 5.5% on all further sales. What

are his gross earnings for a month in which he sells \$140,000 worth of mutual funds?

\$6050.00

Difficulty: Medium

Jerome - Chapter 01 #103

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

104. Sharon is a manufacturer's representative selling office furniture directly to businesses. She receives a monthly salary of \$2000 plus a 2.2% commission on sales exceeding her quota of

\$150,000 per month.

a) What are her earnings for a month in which she has \$227,000 in sales?

b) If her average monthly sales are \$235,000, what straight commission rate would generate

the same average monthly earnings as her current basis of remuneration?

a) \$3694.00 and b) 1.6468%

Difficulty: Hara

Jerome - Chapter 01 #104

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

- 105. Julio is paid on a graduated commission scale of 5% on the first \$20,000 of sales in a month, 7.5% on the next \$20,000, and 10% on all additional sales.
  - a) What will he be paid for a month in which his sales are \$54,880?
  - b) What single commission rate on all sales would result in the same earnings for the month?
  - a) \$3988.00 and b) 7.2668%

Difficulty: Haro

Jerome - Chapter 01 #105

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

106. Karen works in a retail computer store. She receives a weekly base salary of \$300 plus a commission of 3% of sales exceeding her quota of \$20,000 per week. What were her sales for a week in which she earned \$630.38?

\$31,012.67

Difficulty: Haro

Jerome - Chapter 01 #106

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

107. Jason's gross pay for August was \$3296.97 on sales totalling \$151,342. If his base salary is \$1500 per month, what is his rate of commission on sales exceeding his monthly quota of \$100,000?

3.50%

Difficulty: Haro

Jerome - Chapter 01 #107

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

108. Daniella's gross monthly earnings are based on commission rates of 4% of the first \$40,000 of sales, 5% of the next \$50,000, and 6% of all additional sales for the month. What was her sales total for a month in which she was paid \$5350?

\$110,833.33

Difficulty: Haro

Jerome - Chapter 01 #108

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

109. Trevor earns a base monthly salary of \$2000 plus a commission of 3% on sales exceeding his monthly quota of \$25,000. He receives a further 3% bonus on sales in excess of \$50,000. What must his sales be in order to gross \$4000 per month?

\$70,833.33

Difficulty: Haro

Jerome - Chapter 01 #109

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

110. In what circumstance should you calculate a weighted average instead of a simple average?

You should calculate a weighted average when some of the values being averaged are more important or occur more frequently than other values.

Difficulty: Easy

Jerome - Chapter 01 #110

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Concept

111. In what circumstances will the weighted average be equal to the simple average?

The weighted average will equal the simple average when the items being averaged all have

the same weighting factor. In other words, each of the values being averaged has the same

importance, or occurs the same number of times.

Difficulty: Easy

Jerome - Chapter 01 #111

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Concept

112. How must you allocate your money among a number of investments so that your portfolio's

overall rate of return will be the same as the simple average of the rates of return on individual

investments?

If you invest the same amount of money in each investment, each rate of return has the same

importance. The portfolio's rate of return will then equal the simple average of the individual

rates of return.

Difficulty: Medium

Jerome - Chapter 01 #112

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Concept

113. A survey of 254 randomly chosen residences in a city revealed that 4 had four television sets, 22 had three sets, 83 had two sets, 140 had one set, and 5 had no TV set at all. Based on the survey, what would you estimate to be the average number of TV sets per household?

1.53

Difficulty: Easy

Jerome - Chapter 01 #113

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Wora

114. An investor accumulated 1800 shares of Corel Corporation over a period of several months. She bought 1000 shares at \$15.63, 500 shares at \$19.00, and 300 shares at \$21.75. What was her average cost per share? (Note: Investors who purchase shares in the same company at more than one price must eventually do this calculation. Tax rules require that the capital gain or loss on the sale of any of the shares be calculated using the weighted-average price paid for all of the shares rather than the particular price paid for the shares actually sold.)

\$17.59

Difficulty: Easy

Jerome - Chapter 01 #114

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

115. A hockey goalie's "goals against average" (GAA) is the average number of goals scored against him per (complete) game. In his first 20 games in goal, O. U. Sieve had one shutout, two 1-goal games, three 2-goal games, four 3-goal games, seven 4-goal games, two 6-goal games, and one 10-goal disaster. Calculate his GAA.

3.50

Difficulty: Easy

Jerome - Chapter 01 #115

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Wora

116. Serge's graduated commission scale pays him 3% on his first \$30,000 in sales, 4% on the next \$20,000, and 6% on all additional sales in a month. What will be his average commission rate on sales for a month totalling a) \$60,000, b) \$100,000?

a) 3.8<u>3</u>% and b) 4.70%

Difficulty: Easy

Jerome - Chapter 01 #116

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

117. The RBC Royal Bank offers an "add-on option" on fixed-rate mortgages. The option allows the customer to borrow additional funds partway through the term of the mortgage. The interest rate charged on the combined mortgage debt becomes the weighted average of the old rate on the former balance and the current competitive rate on new mortgage financing. Suppose Herschel and Julie had a mortgage balance of \$37,500 at 8%, when they borrowed another \$20,000 at 7%. What interest rate will they be charged by the RBC Royal Bank on the new consolidated balance?

7.65%

Difficulty: Easy

Jerome - Chapter 01 #117

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Wora

118. Margot's grades and course credits in her first semester at college are listed below.

Grade	C+	B-	B+	C-	В	C	
Credits	5	3	4	2	3	4	

Using the table in Example 1.5D for converting Letter Grades to grade Point Value, calculate Margot's grade point average for the semester.

2.53

Difficulty: Easy

Jerome - Chapter 01 #118

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

119. The distribution of scores obtained by 30 students on a quiz marked out of 10 is listed below.

Score	10	9	8	7	6	5	4	3	2	1
Number of Students	2	6	9	7	3	2	0	1	0	0

What was the average score on the test?

7.53

Difficulty: Easy

Jerome - Chapter 01 #119

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Wora

120. Alihan's transcript shows the following academic record for four semesters of part-time college studies. Calculate his cumulative GPA at the end of his fourth semester.

Semester	Credits	GPA
I	6	3.5
II	9	3.0
III	12	2.75
IV	7.5	3.2

3.04

Difficulty: Easy

Jerome - Chapter 01 #120

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

121. The "age" of an account receivable is the length of time that it has been outstanding. At the end of October, a firm has \$12,570 in receivables that are 30 days "old," \$6,850 that are 60 days "old," and \$1325 that are 90 days "old." What is the average "age" of its accounts receivable at the end of October?

43.74 days

Difficulty: Medium

Jerome - Chapter 01 #121

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Wora

122. One year ago, Sook-Yin allocated the funds in her portfolio among five securities in the proportions listed below. The rate of (total) return on each security for the year is given in the third column of the table.

	Portion	Rate of Return
Security	invested	for the year
Company A Shares	15%	14%
Province A Bonds	20	10
Company C Shares	10	-13
Units in Fund D	35	12
Company E Shares	20	27

Calculate the rate of return for the entire portfolio.

12.40%

Difficulty: Medium

Jerome - Chapter 01 #122

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

123. One of the methods permitted by Generally Accepted Accounting Principles for reporting the value of a firm's inventory is weighted-average inventory pricing. The Boswell Corporation began its fiscal year with an inventory of 156 units valued at \$10.55 per unit. During the year it made the purchases listed in the following table.

Date	Units Purchased	Unit Cost		
February 10	300	\$10.86		
June 3	1000	10.47		
August 23	500	10.97		

At the end of the year, 239 units remained in inventory. Determine: a) The weighted-average cost of the units purchased during the year. b) The weighted-average cost of the beginning inventory and all units purchased during the year. c) The value of the ending inventory based on the weighted-average cost calculated in b.

a) \$10.67 and b) \$10.66 and c) \$2547.74

Difficulty: Medium

Jerome - Chapter 01 #123

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

124. Suppose a group of consumers spends 30% of its disposable income on food, 20% on clothing, and 50% on rent. If over the course of a year the price of food rose 10%, the price of clothing dropped 5%, and rent rose 15%, what was the average price increase experienced by these consumers?

9.50%

Difficulty: Medium

Jerome - Chapter 01 #124

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Wora

125. A restaurant owner set her menu prices at a predetermined percentage of her input costs for food, ingredients, and beverages. The prices as a percentage of these costs for various menu categories are presented in the second column of the table. The third column presents the

Menu category	Menu price as a percentage of costs	Percentage of sales revenue
Appetizers	300%	10%
Entrees	200%	50%
Desserts	225%	25%
Beverages	250%	15%

breakdown of the restaurant's overall revenue from the four men categories. On average, what are menu prices as a percentage of the basic input costs? Overall, what are the input costs as a percentage of revenue?

226.25% of input costs; 44.20% of revenue

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Wora

126. The balance on Nucorp's revolving loan began the month at \$35,000. On the eighth of the month another \$10,000 was borrowed. Nucorp was able to repay \$20,000 on the 25<sup>th</sup> of the 31-day month. What was the average balance on the loan during the month? (Use each day's closing balance as the loan balance for the day.)

\$38,225.81

Difficulty: Haro

Jerome - Chapter 01 #126

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

127. A seasonal manufacturing operation began the calendar year with 14 employees. During the year, employees were taken on or laid off on various dates as presented in the table below.

Date	Employee changes
April 1	7 hired
May 1	8 hired
June 1	11 hired
Sept. 1	6 laid off
Oct. 1	14 laid off

What was the average number of employees on the payroll during the calendar year? (Assume that each month has the same length.)

25.5

Difficulty: Haro

Jerome - Chapter 01 #127

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

128. Marcel must temporarily invest extra money in his retail business every fall to purchase additional inventory for the Christmas season. On September 1 he already had a total of \$57,000 invested in his business. Subsequently, he invested or withdrew cash on various dates as shown in the following table.

Date	Additional injection or withdrawal
Oct. 1	\$15,000 injection
Nov. 1	\$27,000 injection
Feb. 1	\$23,000 withdrawal
March 1	\$13,000 withdrawal
May 1	\$6000 withdrawal

What was the average cumulative investment in the business during the period from September 1 to August 31? (Assume that each month has the same length.)

\$71,333.33

Difficulty: Haro

Jerome - Chapter 01 #128

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

129. When a company calculates its earnings per common share for its financial statements, it uses the weighted-average number of common shares outstanding during the year. Enertec Corp. began its fiscal year (January 1 to December 31) with 5 million common shares outstanding. Additional common shares were issued during the year as indicated in the following table.

Date	Event	Additional shares issued
March 1	New public offering	1,000,000
June 1	Employees and officers exercise stock options	500,000
Nov. 1	Convertible bonds exchanged for shares	750,000

What was average number of common shares outstanding during the year? (Assume that each month has the same length.)

6,250,000

Difficulty: Medium

Jerome - Chapter 01 #129

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

130. Lien, the proprietor of a grocery store, prepares her Deluxe Nut Combo by mixing various ingredients she buys in bulk. The second column of the following table presents the amount of each ingredient Lien uses in making a batch of the Combo mix. In order to set the retail price of the Deluxe Nut Combo at 150% of her cost, Lien must determine her cost based on the average wholesale cost of the ingredients given in the third column.

Ingredient	Amount	Cost per kg
Peanuts	5 kg	\$2.95
Cashews	2 kg	\$9.50
Almonds	1 kg	\$11.50
Sunflower seeds	500 g	\$2.75
Raisins	400 g	\$3.60
Smarties	300 g	\$6.40

- a. What is Lien's average cost per 100 g of her Deluxe Nut Combo?
- b. What is her retail price per 100 g?
- a) \$0.5433 per 100g b) \$0.81 per 100g

Difficulty: Medium

Jerome - Chapter 01 #130

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

131. Johnston Distributing, Inc. files quarterly GST returns. The purchases on which it paid the GST and the sales on which it collected the GST for the last four quarters were as follows:

Quarter	Purchases	Sales
1	\$596,476	\$751,841
2	967,679	627,374
3	823,268	1,231,916
4	829,804	994,622

Calculate the GST remittance or refund due for each quarter. (GST = 6%)

Q1) \$9321.90; Q2) \$(20,418.30); Q3) \$24,518.88; and Q4) \$9889.08

Difficulty: Easy

Jerome - Chapter 01 #131

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text

Topic: Basic Mathematics

132. Sawchuk's Home and Garden Centre files monthly GST returns. The purchases on which it paid the GST and the sales on which it collected the GST for the last four months were as follows:

Month	Purchases	Sales	
March	\$135,650	\$57,890	
April	213,425	205,170	
May	176,730	313,245	
June	153,715	268,590	

Calculate the GST remittance or refund due for each month. (GST = 6%)

March) \$(4665.60); April) \$(495.30); May) \$8190.90; and June) \$6892.50

Difficulty: Easy

Jerome - Chapter 01 #132

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text

Topic: Basic Mathematics

Type: Wora

- 133. Calculate the total amount, including both GST and PST, that an individual will pay for a car priced at \$39,500 in: a) Alberta b) Saskatchewan c) Quebec.
  - a) \$41,475.00; b) \$43,450.00; and c) \$45,415.13

Difficulty: Medium

Jerome - Chapter 01 #133

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text

Topic: Basic Mathematics

	Island than in Manitoba?
	\$10.00 more
Learning	Difficulty: Medium  Jerome - Chapter 01 #134  Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.  Source: Student text  Topic: Basic Mathematics  Type: Wora
135.	Angie's Flower Shop charges 13% Harmonized Sales Tax (HST) on all purchases.
	a) How much HST will she report for a plant priced at \$39.45?
	b) As of February 4, 2013, if a consumer pays cash and cannot give the exact change, the
	total amount of the transaction must be rounded up or down. How much change will be given if
	the above purchase is paid for with a \$50 bill?
	a. \$5.13; b. \$5.40
	Difficulty: Medium
	Jerome - Chapter 01 #135
Learning	Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text
Topic: Basic Mathematics

Type: Wora

How much more will a consumer pay for an item listed at \$1000 (pretax) in Prince Edward

134.

136. To attract shoppers, retailers occasionally advertise something like "Pay no hST!" Needless to say, neither the federal nor the provincial government is willing to forego its sales tax. In this situation, the retailer must calculate and remit the H as though the "ticket" price already includes these sales taxes. How much H must a retailer in New Brunswick report on a \$495 item that he sells on a Pay-No-H basis? (Hint: What percentage is the HST of a H-inclusive price?)

11.50% of the HST-inclusive price; \$56.93

Difficulty: Medium

Jerome - Chapter 01 #136

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text

Topic: Basic Mathematics

Type: Wora

137. What are the taxes on a property assessed at \$227,000 if the mill rate is 16.8629?

\$3827.88

Difficulty: Easy

Jerome - Chapter 01 #137

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text

Topic: Basic Mathematics

- 138. a) Express a property tax increase of 0.1 mill in terms of dollars per \$100 of assessed value?
  - b) If the mill rate increases by 0.1 mill, what is the dollar increase in property taxes on a \$200,000 home?
  - a) \$0.01 per \$100 and b) \$20.00

Difficulty: Medium

Jerome - Chapter 01 #138

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text

Topic: Basic Mathematics

Type: Wora

139. The assessment on a farm consists of \$143,000 for the house and \$467,000 for the land and buildings. A mill rate of 15.0294 applies to residences, and a rate of 4.6423 applies to agricultural land and buildings. What are the total property taxes payable on the farm?

\$4317.16

Difficulty: Medium

Jerome - Chapter 01 #139

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax, and real property tax.

Source: Student text

Topic: Basic Mathematics

140. The assessed value on a property increased from \$285,000 last year to \$298,000 in the current year. Last year's property tax rate was \$1.56324 per \$100 of assessed value. a) What will be the change in the property tax from last year if the new tax rate is set at \$1.52193 per \$100? b) What would the new tax rate have to be for the dollar amount of the property taxes to be unchanged?

a) \$80.12 increase and b) \$1.49504 per \$100

Difficulty: Medium

Jerome - Chapter 01 #140

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text

Topic: Basic Mathematics

Type: Wora

141. The school board in a municipality will require an extra \$2,430,000 for its operating budget next year. The current mill rate for the school tax component of property taxes is 7.1253. a) If the total of the assessed values of properties in the municipality remains at the current figure of \$6.78 billion, at what value must next year's school mill rate be set? b) If the total of all assessed values rises by 5% over this year's aggregate assessment, at what value must next year's school mill rate be set?

a) 7.4837 and b) 7.1273

Difficulty: Medium

Jerome - Chapter 01 #141

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text

Topic: Basic Mathematics

142. The total assessed value of property in Brockton has risen by \$97 million from last year's figure of \$1.563 billion. The property tax rate last year for city services was \$0.94181 per \$100 of assessed value. If the city's budget has increased by \$750,000, what tax rate should it set for the current year?

\$0.93196 per \$100

Difficulty: Easy

Jerome - Chapter 01 #142

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Student text

Topic: Basic Mathematics

Type: Wora

143. Solve the following equation 
$$(2^3-3)^2-20 \div (2+2^3)$$

23

Difficulty: Easy

Jerome - Chapter 01 #143

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

$$\left[4(2\times3^{2}-2^{3})^{2}\div(10-4\times5)\right]$$

Solve the following equation

-40

Difficulty: Easy

Jerome - Chapter 01 #144

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

145.

$$$213.85 \left(1-0.095 \times \frac{5}{12}\right)$$

Solve the following equation

\$205.39

Difficulty: Easy

Jerome - Chapter 01 #145

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

146.

$$\frac{\$2315}{1+0.0825 \times \frac{77}{365}}$$

Solve the following equation

\$2275.40

Source: Student text

Topic: Basic Mathematics

Type: Wora

147.

$$325.75 \left(1 + \frac{0.105}{4}\right)^2$$

Solve the following equation

\$343.08

Difficulty: Easy

Jerome - Chapter 01 #147

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

148.

$$\frac{\$710}{\left(1+\frac{0.0925}{2}\right)^3}$$

Solve the following equation

\$619.94

Difficulty: Easy

Jerome - Chapter 01 #148

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

\$885.75 
$$\left(1+0.0775 \times \frac{231}{365}\right) - \frac{\$476.50}{1+0.0775 \times \frac{49}{365}}$$

Solve the following equation

\$457.60

Difficulty: Easy

Jerome - Chapter 01 #149

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

150.

$$$859 \left(1 + \frac{0.0825}{12}\right)^3 + \frac{$682}{\left(1 + \frac{0.0825}{12}\right)^2}$$

Solve the following equation

\$1549.56

Difficulty: Medium

Jerome - Chapter 01 #150

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

151. Evaluate the following:

$$96 - (6 - 4^2) \times 7 - 2$$

164

Source: Student text

Topic: Basic Mathematics

Type: Wora

152. 81 ÷  $(5^2 - 16) - 4(2^3 - 13)$ Evaluate the following:

29

Difficulty: Easy

Jerome - Chapter 01 #152

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

153. 
$$\frac{\$827.69}{1+0.125 \times \frac{273}{365}} + \$531.49 \left(1+0.125 \times \frac{41}{365}\right)$$

Evaluate the following:

\$1295.88

Difficulty: Easy

Jerome - Chapter 01 #153

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

\$550.45 
$$\left(1+0.0875 \times \frac{195}{365}\right) - \frac{\$376.29}{1+0.0875 \times \frac{99}{365}}$$

Evaluate the following:

\$208.62

Difficulty: Medium

Jerome - Chapter 01 #154

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

155.

$$1137 \left(1 + \frac{0.0975}{12}\right)^2 + \frac{2643}{\left(1 + \frac{0.0975}{12}\right)^3}$$

Evaluate the following:

\$3735.16

Difficulty: Medium

Jerome - Chapter 01 #155

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Student text

Topic: Basic Mathematics

Type: Wora

156. What amount is 62% of \$99?

\$61.38

		Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.
		Source: Student text
		Topic: Basic Mathematics
		Type: Wora
157.	What is 80% of \$156.25?	
	νιιατίο σο /ν σι φ 1σσί <u>ο</u> σ	
	\$125.00	
	Ų.20.00	
		Difficulty: Easy
		Jerome - Chapter 01 #157
		Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.
		Source: Student text
		Topic: Basic Mathematics
		Type: Wora
158.	$\frac{3}{4}$ % of \$133. $\frac{33}{3}$ is what amount?	
	·	
	\$1.00	
		Difficultus Face
		Difficulty: Easy
		Jerome - Chapter 01 #158
		Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.
		Source: Student text
		Topic: Basic Mathematics
		Type: Wora
159.	How many minutes is 12.5% in 2 ho	ours?
	15 minutes	

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.
Source: Student text
Topic: Basic Mathematics

Type: Wora

160. The profit forecast for the most recent fiscal quarter is \$23,400. The actual profit is 90% of the forecast profit. What is the actual profit?

\$21,600.00

Difficulty: Easy

Jerome - Chapter 01 #160

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

Type: Wora

161. Renalda sold Westel stock that she purchased at \$2.20 per share one year ago for a 35% gain. At what price did she sell the stock?

\$2.97 per share

Difficulty: Easy

Jerome - Chapter 01 #161

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Student text

Topic: Basic Mathematics

- 162. Luther is paid an annual salary of \$56,600 based on a 37½-hour workweek.
  - a) What is his equivalent hourly wage? (Assume that a year has exactly 52 weeks).
  - b) What would be his total remuneration for a bi-weekly pay period of that year if he worked
  - 4.5 hours of overtime at time and a half?
  - a) \$29.03 and b) \$2372.85

Difficulty: Easy

Jerome - Chapter 01 #162

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

163. Istvan earns an annual salary of \$61,000 as an executive with a provincial utility. He is paid biweekly. During a strike, he worked 33 hours more than the regular 75 hours for a two-week pay period. What was his gross pay for that period if the company agreed to pay 1.5 times his equivalent hourly rate for overtime? (Assume that a year has exactly 52 weeks.)

\$3894.61

Difficulty: Medium

Jerome - Chapter 01 #163

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

164. Sonja is paid \$42.50 per hour as a veterinarian. She is paid 1½ times the regular rate for all time exceeding 7½ hours in a day or 37½ hours per week. Work on a statutory holiday is paid at double time. What were her gross earnings for a week in which she worked 6, 0, 3, 7½, 9, 7½, and 8 hours on Saturday to Friday, respectively, and the Monday was a statutory holiday?

\$2231.25

Difficulty: Medium

Jerome - Chapter 01 #164

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

165. Marion receives a monthly base salary of \$1000. On the first \$10,000 of sales above her monthly quota of \$20,000, she is paid a commission of 8%. On any additional sales, the commission rate is 10%. What were her gross earnings for the month of August, in which she had sales amounting to \$38,670?

\$2667

Difficulty: Medium

Jerome - Chapter 01 #165

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

166. Lauren's gross pay for July was \$3188.35 on net sales totalling \$88,630. If her base salary is \$1000 per month, what is her rate of commission on sales exceeding her monthly quota of \$40,000?

4.50%

Difficulty: Medium

Jerome - Chapter 01 #166

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

Type: Wora

167. Havel signed a listing agreement with a realtor. The commission rate is 4% on the first \$200,000 of the selling price, and 2.5% on the remainder. a) What commission will Havel pay if he sells his home for \$289,000? b) What is the average commission rate on the selling price?

a) \$10,225.00 and b) 3.54%

Difficulty: Easy

Jerome - Chapter 01 #167

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Student text

Topic: Basic Mathematics

168. "Souvenirs and Such" is a gift shop in Niagara Falls. Last year 22% of its revenue came from the sale of clothing, 18% from food items, and 32% from novelty items and the remainder from special services they provide for tourists. This past year they experienced a 5% increase in the sale of clothing, a 2% increase in the sale of food items, a 9% drop in novelty items and a 2% drop in special services. What is the average change in their revenue for this year?

-1.98%

Difficulty: Medium

Jerome - Chapter 01 #168

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Wora

169. Ms. Yong invested a total of \$73,400 in three mutual funds as shown in the table below. The third column shows the change in value of each fund during the subsequent six months.

	Amount	Change
Mutual Fund	Invested (\$)	in value (%)
Canadian equity fund	16,800	-4.3
US equity fund	25,600	-1.1
Global equity fund	31,000	8.2

What was the percent change in value of Ms. Yong's overall mutual fund portfolio during the six-month holding period?

2.10%

170. One year ago Helga allocated the funds in her portfolio among five securities in the amounts listed in the following table. The rate of return on each security for the year is given in the third column of the table.

	Amount	Rate of return
Security	Invested	for the year
Company U shares	\$5000	30%
Province V bonds	20,000	-3
Company W shares	8000	-15
Units in Fund X	25,000	13
Company Y shares	4500	45

Calculate the rate of return for the entire portfolio.

7.96%

Difficulty: Medium

Jerome - Chapter 01 #170

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

Type: Wora

171. Anthony began the year with \$96,400 already invested in his Snow 'n Ice retail store. He withdrew \$14,200 on March 1 and another \$21,800 on April 1. On August 1, he invested \$23,700, and on November 1 he contributed another \$19,300. What was his average cumulative investment during the year? (Assume that each month has the same length.)

Source: Student text

Topic: Basic Mathematics

Type: Wora

172. The fiscal year for Pine Valley Skiing Ltd., the owner of a downhill skiing facility, ends on June 30. The company began the recently completed fiscal year with its summer maintenance crew of 7. The following table presents the sequence of employees hired and layoffs during the fiscal year.

Date	Employee changes
Sept. 1	6 hired
Nov. 1	18 hired
Dec. 1	23 hired
Mar. 1	11 laid off
Apr. 1	20 laid off
May 1	16 laid off

What was the average number of employees working for Pine Valley during the fiscal year? (Assume that each month has the same length.)

26.1

Difficulty: Medium

Jerome - Chapter 01 #172

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Student text

Topic: Basic Mathematics

$$$250 \left(1+0.05 \times \frac{145}{365}\right)$$

Evaluate the answer correct to the cent:

\$254.97

Difficulty: Medium

Jerome - Chapter 01 #173

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

174.

$$\frac{\$2500}{1 + 0.06 \times \frac{8}{12}}$$

Evaluate the answer correct to the cent:

\$2,403.85

Difficulty: Medium

Jerome - Chapter 01 #174

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

1	7	5	
---	---	---	--

 $\frac{\$5000}{(1+0.04)^2}$ 

Evaluate the answer correct to the cent:

\$4,622.78

Difficulty: Medium

Jerome - Chapter 01 #175

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

176.

 $$700(1+0.05)^3$ 

Evaluate the answer correct to the cent:

\$810.34

Difficulty: Medium

Jerome - Chapter 01 #176

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

$$1100 \left( \frac{\left(1+0.05\right)^2 - 1}{0.05} \right)$$

Evaluate the answer correct to the cent:

\$2,255

Difficulty: Medium

Jerome - Chapter 01 #177

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

178.

$$$3000 \left(1 + 0.04 \times \frac{285}{365}\right)$$

Evaluate the answer correct to the cent:

\$3,093.70

Difficulty: Medium

Jerome - Chapter 01 #178

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

$$\frac{\$750}{1 + 0.04 \times \frac{5}{12}}$$

Evaluate the answer correct to the cent:

\$737.70

Difficulty: Medium

Jerome - Chapter 01 #179

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

180.

$$\frac{\$100}{1 + .025 \times \frac{13}{12}}$$

Evaluate the answer correct to the cent:

\$97.36

Difficulty: Medium

Jerome - Chapter 01 #180

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

 $\frac{\$1000}{(1+0.05)^2}$ 

Evaluate the answer correct to the cent:

\$907.03

Difficulty: Medium

Jerome - Chapter 01 #181

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

182. Evaluate the answer correct to the cent:

 $1700(1+0.04)^3$ 

\$1,912.27

Difficulty: Medium

Jerome - Chapter 01 #182

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

$$$6000 \left( \frac{\left(1+0.045\right)^2 - 1}{0.045} \right)$$

Evaluate the answer correct to the cent:

\$12,270

Difficulty: Medium

Jerome - Chapter 01 #183

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

184. Solve the following equation  $30 \div 3 + 12 \div 4$ 

13

Difficulty: Easy

Jerome - Chapter 01 #184

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

185. Solve the following equation  $30 \div (3+12) \div 2$ 

1

Source: Test bank

Topic: Basic Mathematics

Type: Wora

186. Solve the following equation  $12+3\left[2+\left(4^2-13\right)^2\right]^2$ 

375

Difficulty: Medium

Jerome - Chapter 01 #186

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

187. Solve the following equation  $5 - (2-4)^2 + 2^3 - 4^2$ 

-7

Difficulty: Medium

Jerome - Chapter 01 #187

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

1	88	
	$\sim$	

 $2\frac{2}{5}$ 

Convert the following to its decimal and percent equivalents.

2.4 = 240%

Difficulty: Easy

Jerome - Chapter 01 #188

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

189.

 $\frac{0.050}{4}$ 

Convert the following to its decimal and percent equivalents.

0.0125 = 1.25%

Difficulty: Medium

Jerome - Chapter 01 #189

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

190.

$$$500 \left[ \frac{(1+0.04)^6-1}{0.04} \right]$$

Evaluate:

\$3316.49

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

191.

$$\frac{\$80\left[1 - \frac{1}{\left(1 + \frac{0.03}{2}\right)^4}\right]}{\frac{0.03}{2}} + \frac{1000}{\left(1 + \frac{0.03}{2}\right)^4}$$

Evaluate:

\$1250.54

Difficulty: Haro

Jerome - Chapter 01 #191

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

192. What is 0.54% of \$200?

\$1.08

Difficulty: Easy

Jerome - Chapter 01 #192

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

193.	20% of \$75 is what amount?
	15
	Difficulty: Easy Jerome - Chapter 01 #193 Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents. Source: Test bank Topic: Basic Mathematics Type: Wora
194.	Syed's net pay is 81% of his gross pay. His net pay for two weeks is \$1069.20. What is his gross pay for two weeks?
	\$1,320.00
	Difficulty: Medium Jerome - Chapter 01 #194 Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions. Source: Test bank Topic: Basic Mathematics Type: Wora
195.	What amount is 130% percent of \$1150?
	\$1495
	Difficulty: Medium
	Jerome - Chapter 01 #195
	Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank
Topic: Basic Mathematics

196. Hany earns \$17.00 per hour for a forty-hour week. His overtime rate is 1 ½ times any hours exceeding forty in a week. What will Sam's gross earnings be for a week if he works 42.5 hours?

\$743.75

Difficulty: Medium

Jerome - Chapter 01 #196

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

197. Surinder works in a retail store in Square One in Mississauga. She earns a base salary of \$320 per week, and a commission of 3% on sales over her quota of \$5000. How much will Larissa earn if her sales for the week are: a) \$4500? b) \$8500?

\$320; \$425

Difficulty: Medium

Jerome - Chapter 01 #197

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

198. Kristina is a sales representative for a pharmaceutical company. She is paid the greater of \$3500 per month or 5% of sales. a) What are her earnings for the month if her sales are \$60,000? \$78,000? b) At what volume of sales per month will she start to earn more from the commission-based compensation?

a) \$3500; \$3900; b) \$70,000

Difficulty: Haro

Jerome - Chapter 01 #198

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

199. Safa's gross pay last month was \$3300.00. Her base salary is \$3000 per month, plus a commission of 2% on sales over \$60,000. What were Safa's sales for last month?

\$75,000

Difficulty: Haro

Jerome - Chapter 01 #199

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

200. Cliff is a sales manager for a convention centre. He is paid on a graduated commission scale of 0.5% on the first \$200,000, 0.7% on the next \$300,000, and 0.8% on all additional sales for the month. What are Cliff's gross earnings in a month in which he sells: a) \$400,000? b) \$700,000?

\$2400; \$4700

Difficulty: Medium

Jerome - Chapter 01 #200

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

## 201. Fatima took six courses last semester. Her grades and course credits are as follows:

Course	Grade	<u>Credits</u>
Accounting	B+	3
Business Mathematics	A	4
Human Resources	В	3
Economics	C+	3
Computer Applications	A	2
Marketing	В	3

Using the Letter Grade to Grade Point Value conversion table in Example 1.4D, calculate her grade point average for the semester.

3.27

Difficulty: Medium

Jerome - Chapter 01 #201

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Test bank

Topic: Basic Mathematics

Grade	Number of Students
100	2
97	3
95	4
91	1
88	2
87	2 2 3
85	
80	5
78	3
77	2
75	4
65	2
60	3
58	4
41	1
40	1

78

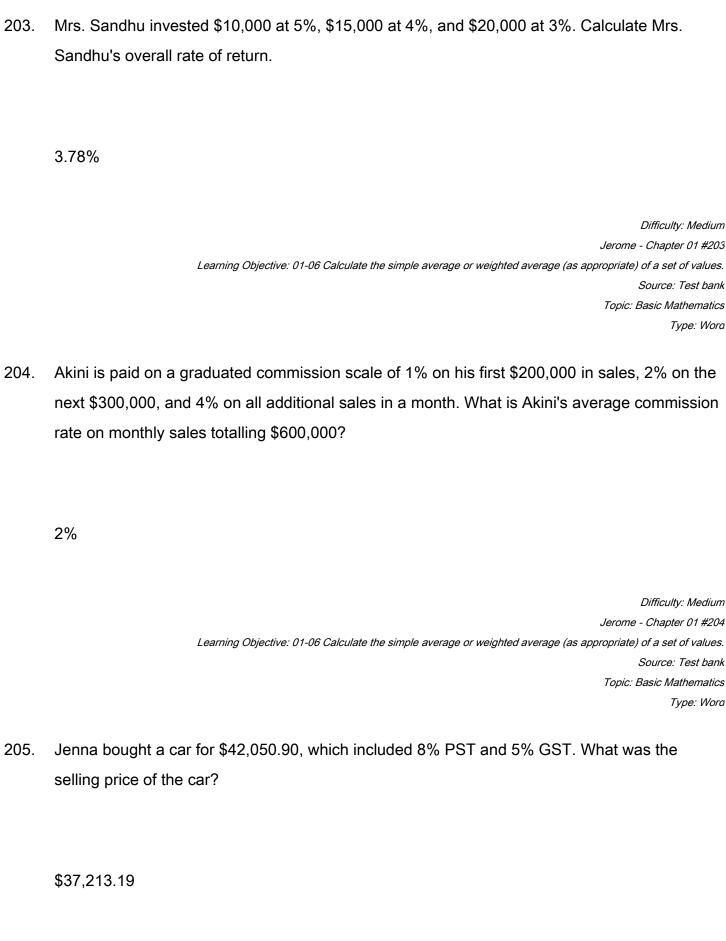
Difficulty: Medium

Jerome - Chapter 01 #202

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Test bank

Topic: Basic Mathematics



Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax, and real property tax.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

206. M Studios files GST returns quarterly. In the last quarter, M Studios sold picture frames totalling \$3,750, photographic equipment for \$78,225, and billed \$43,580 for studio work. In the same time period, M Studios paid \$3,000 for rent, \$1275 for utilities, and purchased goods subject to GST for \$65,000. What GST must be remitted by M Studios (or refunded by the CRA) for this quarter? (Assume GST = 5%)

remit \$2814.00

Difficulty: Easy

Jerome - Chapter 01 #206

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

207. Sam buys a sweater listed at \$100. How much will he pay for the sweater including taxes in: a)
Ontario? b) Quebec? c) Alberta? d) Manitoba?

(Assume GST = 5%)

a) \$113.00; b) \$114.98: c) \$105.00; d) \$113.00

Difficulty: Medium

Jerome - Chapter 01 #207

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics

208. The town of Simcoe is considering raising the \$2 billion required for a sports complex by approving a new capital levy component of the property tax. The levy must be collected over the next five years. If the total assessed value of property in the town is \$875 billion, what additional tax will a home owner of a property assessed at \$300,000 pay?

\$137.14

Difficulty: Medium

Jerome - Chapter 01 #208

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics

Type: Wora

209. Evaluate  $8 - 5 \times 2 - 3 =$ 

- <u>**A.</u>** -5</u>
- B. 3
- C. 5
- D. -3
- E. 15

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #209

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: MC

# 210. Evaluate $8 - 4 \times (2 - 3) =$

- A. -4
- <u>B.</u> 12
- C. 5
- D. 11
- E. 4

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #210

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: MC

211. Evaluate 18 
$$\div$$
 3 + 8 - 4 × 2 - 3 =

- A. 17
- B. 25
- <u>C.</u> 3
- D. 11
- E. 4

Difficulty: Easy

Jerome - Chapter 01 #211

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

212. Evaluate 18  $\div$  3 + (8 - 4) × (2 - 3) =

- A. -10
- B. 17
- C. -18
- <u>D.</u> 2 E. 4

Difficulty: Easy

Jerome - Chapter 01 #212

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: MC

213. Evaluate  $8 - 4 \times (2 - 3)^2 =$ 

- A. 25
- B. -1
- C. 12
- D. 17
- <u>E.</u> 4

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #213

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

- <u>A.</u> 7
- B. 12
- C. -12
- D. -1
- E. 1

Difficulty: Easy

Jerome - Chapter 01 #214

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: MC

# 215. Evaluate the following:

$$\frac{3(2+1)^2+5^2}{4-3^2}$$

- A. -7.4
- <u>B.</u> -10.4
- C. -14.8
- D. 10.4
- E. 7.4

Difficulty: Easy

Jerome - Chapter 01 #215

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

- A. 400
- B. -400
- <u>C.</u> 48
- D. -48
- E. 93

Difficulty: Easy

Jerome - Chapter 01 #216

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: MC

217. Evaluate 
$$3[4 + (5 - 3)^2]^2 =$$

- A. 256
- B. 38,416
- C. 3600
- **D.** 192
- E. 576

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #217

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

- A. 11
- B. 125
- C. -21
- **D**. 95
- E. 395

Difficulty: Easy

Jerome - Chapter 01 #218

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: MC

$$$1200 \left(1 + .0625 \times \frac{7}{12}\right)$$

Evaluate

- A. \$743.75
- B. \$1725.00
- C. \$700.04
- D. \$1637.50
- **E.** \$1243.75

Difficulty: Easy

Jerome - Chapter 01 #219

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

220.

$$$1000 \left(1 + .045 \times \frac{17}{12}\right)$$

Evaluate

<u>A.</u> \$1063.75

B. \$1416.73

C. \$1765.00

D. \$1637.50

E. \$1480.42

Difficulty: Easy

Jerome - Chapter 01 #220

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

221.

$$$750 \left(1 - .0575 \times \frac{150}{365}\right)$$

Evaluate

A. \$749.98

**B.** \$732.28

C. \$308.20

D. \$572.77

E. \$767.72

Difficulty: Easy

Jerome - Chapter 01 #221

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

222.

$$$650 \left(1 - .0625 \times \frac{21}{12}\right)$$

Evaluate

A. \$1137.39

B. \$721.09

**C.** \$578.91

D. \$446.88

E. \$576.06

Difficulty: Easy

Jerome - Chapter 01 #222

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

223.

$$\frac{\$1050}{\left(1 + \frac{0.065}{12}\right)^3}$$

A. \$1067.16

B. \$1035.95

C. \$896.32

**D.** \$1033.12 E. \$1502.05

Difficulty: Easy

Jerome - Chapter 01 #223

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

$$\frac{\$25,000}{\left(1+\frac{0.07}{12}\right)^4}$$

Evaluate

- A. \$25,588.46
- B. \$19,927.38
- C. \$19,072.38
- D. \$24,855.01
- **E.** \$24,425.08

Difficulty: Easy

Jerome - Chapter 01 #224

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

225.

$$\frac{\$1500\left(1+0.055\times\frac{3}{12}\right)}{1+0.10\times\frac{9}{12}}$$

Evaluate

- **A.** \$1414.53
- B. \$1843.18
- C. \$348.85
- D. \$454.56
- E. \$1625.58

Difficulty: Medium

Jerome - Chapter 01 #225

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

226.

$$\frac{\$1750\left(1+\frac{0.11}{4}\right)^{3}}{1+0.075\times\frac{275}{365}}$$

Evaluate

- A. \$1701.95
- **B.** \$1796.85
- C. \$2265.35
- D. \$1897.86
- E. \$2392.70

Difficulty: Medium

Jerome - Chapter 01 #226

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

227.

$$\$20,000 \left\lceil \frac{\left(1 + \frac{0.05}{2}\right)^4 - 1}{\frac{0.05}{2}} \right\rceil$$

Evaluate

- A. \$172,405.00
- B. \$82,207.63
- **C.** \$83,050.31
- D. \$41,525.16
- E. \$86,202.50

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

228.

$$\$675 \left[ \frac{\left(1 + \frac{0.065}{4}\right)^6 - 1}{\frac{0.065}{4}} \right]$$

## Evaluate

- A. \$2766.53
- B. \$1054.53
- C. \$19,072.06
- **D.** \$4218.14
- E. \$45,756.60

Difficulty: Medium

Jerome - Chapter 01 #228

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

229.

$$\frac{\frac{\$900}{\left(1 + \frac{0.055}{4}\right)^7 - 1}}{\frac{0.055}{4}}$$

Evaluate

- A. \$493.46
- B. \$27.22
- C. \$900.00
- D. \$84.52
- **E.** \$123.36

Difficulty: Medium

Jerome - Chapter 01 #229

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

230.

$$\frac{\$2500}{\underbrace{\left(1 - \frac{0.065}{2}\right)^4 + 1}_{0.065}}_{1}$$

Evaluate

- **A.** \$43.31
- B. \$38.03
- C. \$86.61
- D. \$83.98
- E. \$48.51

Source: Test bank

Topic: Basic Mathematics

Type: MC

231.

$$\$110 \left[ 1 - \frac{3}{\left( 1 + \frac{0.085}{12} \right)^5} \right] - \frac{\left( 1 + \frac{0.085}{12} \right)^4}{\frac{0.085}{12}}$$

Evaluate

- A. -\$404.21
- **B.** -\$353.78
- C. -\$185.74
- D. -\$208.56
- E. -\$145.22

Difficulty: Hara

Jerome - Chapter 01 #231

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

232.

$$\$1500 \left[ 1 + \frac{1}{\left(1 - \frac{0.04}{12}\right)^3} \right] - \frac{\left(1 + \frac{0.04}{12}\right)^3}{\frac{0.04}{12}}$$

Evaluate

- A. \$1489.85
- B. \$2892.41
- **C.** \$2712.09
- D. \$1177.64
- E. \$1818.11

Difficulty: Haro

Jerome - Chapter 01 #232

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

## 233. What amount is 230% of \$450?

- A. \$103,500
- B. \$1.035
- C. \$51.11
- <u>D.</u> \$1035
- E. \$195.65

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #233

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

D. \$.80

<u>E.</u> \$80

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #234

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

Type: MC

### 235. 4.9% of \$2750 is what amount?

<u>A.</u> \$134.75

B. \$13,475

C. \$2,884.75

D. \$13.48

E. \$284.48

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #235

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

- A. \$455.00
- <u>B.</u> \$4.55
- C. \$4550.00
- D. \$45.50
- E. \$0.455.

Difficulty: Easy

Jerome - Chapter 01 #236

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

Type: MC

### 237. What is 13.5% of \$5000?

- A. \$67.5
- B. \$6.75
- <u>C.</u> \$675
- D. \$6,750.00
- E. \$0.675

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #237

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

B. \$406.25

C. \$40.63

**D.** \$40,625

E. \$4,062

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #238

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

Type: MC

### 239. 78% of \$249.60 is what amount?

A. \$151.86

B. \$269.07

C. \$26.91

D. \$19.47

**E.** \$194.69

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #239

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

Α.	\$1	62
<i>,</i>		

- B. \$16.88
- C. \$691.20
- D. \$123.12
- E. \$389.88

Difficulty: Easy

Jerome - Chapter 01 #240

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

Type: MC

# 241. 0.0% % of \$10,000 is what amount?

- A. \$87.50
- **B.** \$8.75
- C. \$87,500
- D. \$8,750
- E. \$875

Accessibility: Keyboard Navigation

Difficulty: Medium

Jerome - Chapter 01 #241

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

- A. \$0.45
- B. \$45.00
- **C.** \$4.50
- D. \$450.00
- E. \$4,500.00

Difficulty: Medium

Jerome - Chapter 01 #242

Learning Objective: 01-04 Perform calculations using fractions; decimals; and percents.

Source: Test bank

Topic: Basic Mathematics

Type: MC

- 243. Nitin earns \$48,000 per year. Determine his gross earnings each pay period in a year if he is paid biweekly. Assume there are 52 weeks in the year.
  - A. \$2000
  - B. \$4000
  - C. \$923.08
  - **D.** \$1846.15
  - E. \$1923.08

Accessibility: Keyboard Navigation

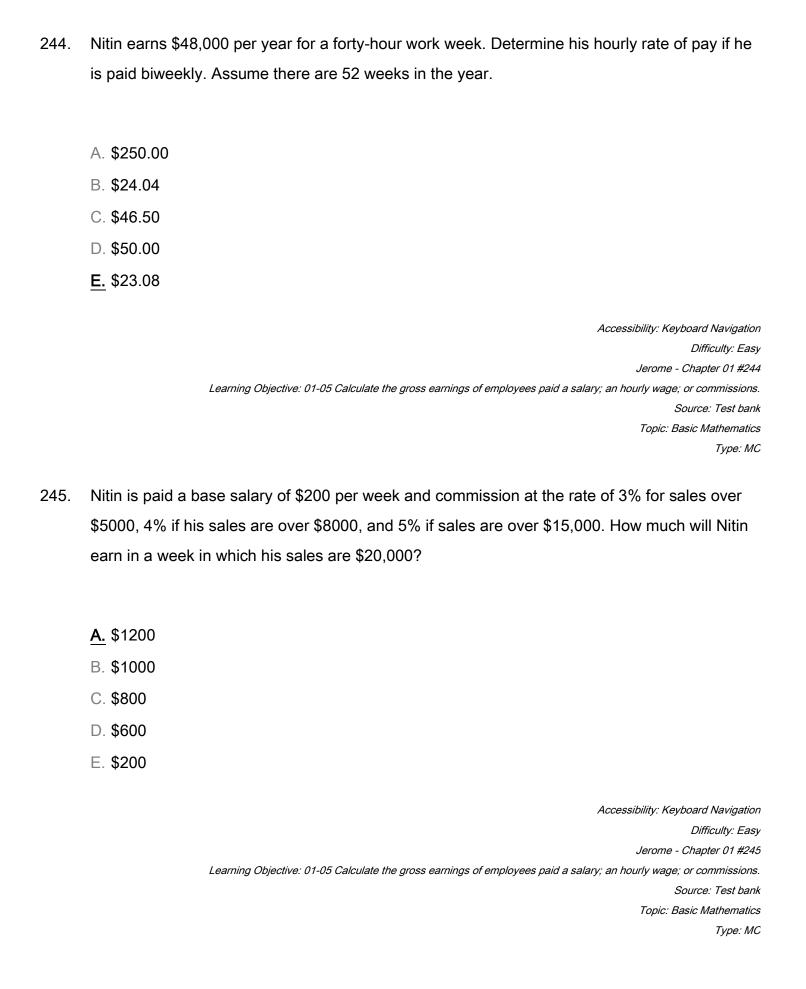
Difficulty: Easy

Jerome - Chapter 01 #243

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics



246.	Nitin is paid a base salary of \$300 per week and commission at the rate of 2.5% for sales over \$5000, 4% if his sales are over \$10,000, and 4.5% if sales are over \$25,000. How much will			
	Nitin earn in a week in which his sales are \$20,000?			
	A. \$800			
	<b>B</b> . \$1100			
	 C. \$900			
	D. \$1200			
	E. \$1125			
	Accessibility: Keyboard Navigation  Difficulty: Easy			
	Jerome - Chapter 01 #246 Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions. Source: Test bank Topic: Basic Mathematics Type: MC			
247.	Nitin is paid on a graduated commission scale. His base salary is \$250 per week and he			
	receives commission at the rate of 2.5% for the first \$5000 of sales in a week, 4% on the next			
	\$10,000, and 4.5% on all further sales. How much will Nitin earn in a week in which his sales are \$30,000?			
	A. \$1200			
	B. \$1350			
	<u>C.</u> \$1450			
	D. \$1600			
	E. \$1000			
	Accessibility: Keyboard Navigation			
	Difficulty: Easy			

Jerome - Chapter 01 #247

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

248.	Nitin is paid on a graduated commission scale. His base salary is \$1500 per month and he
	receives commission at the rate of 2% for the first \$10,000 of sales in a month, 3% on the next
	\$20,000, and 4.5% on all further sales. How much will Nitin earn in a month in which his sales
	are \$60,000?

- A. \$2150
- B. \$2250
- C. \$3750
- **D**. \$3650
- E. \$2500

Difficulty: Easy

Jerome - Chapter 01 #248

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

Type: MC

249. A sales representative is paid the greater of \$950 or 8% of sales. At what volume of sales will he start to earn more from the commission-based compensation?

- A. \$9500
- B. \$1026
- C. \$1875
- D. \$1187.50
- **E.** \$11,875

Accessibility: Keyboard Navigation

Difficulty: Medium

Jerome - Chapter 01 #249

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

- 250. A sales representative is paid the greater of \$1275 per week or 9% of sales. At what volume of sales will she start to earn more from the commission-based compensation?
  - **A.** \$14,166.67
  - B. \$1389.75
  - C. \$2295
  - D. \$2422.50
  - E. \$12,750

Difficulty: Medium

Jerome - Chapter 01 #250

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

Type: MC

- 251. Nitin is paid on a graduated commission scale. He receives commission at the rate of 2.5% for the first \$5000 of sales in a week, 4% on the next \$10,000, and 4.5% on all further sales. What is Nitin's average rate of commission in a week in which his sales are \$30,000?
  - A. 3.67%
  - **B**. 4%
  - C. 3.33%
  - D. 3.75%
  - E. 4.25%

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #251

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Test bank

Topic: Basic Mathematics

252.	Nitin is paid on a graduated commission scale. He receives commission at the rate of 2% for
	the first \$10,000 of sales in a month, 3% on the next \$20,000, and 4.5% on all further sales.
	What is Nitin's average rate of commission in a month in which his sales are \$60,000?

- A. 3.167%
- B. 3.417%
- **C.** 3.583%
- D. \$5
- E. 3.83%

Difficulty: Easy

Jerome - Chapter 01 #252

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Test bank

Topic: Basic Mathematics

Type: MC

- 253. Safa is paid a base salary of \$1500 per month and a commission of 6% on all sales over \$75,000. Last month, Safa's gross salary was \$4440. What were her sales for the month?
  - A. \$49,000
  - B. \$75,266.40
  - C. \$149,000
  - **D.** \$124,000
  - E. \$100,000

Accessibility: Keyboard Navigation

Difficulty: Haro

Jerome - Chapter 01 #253

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

- 254. Isaac earns a base salary of \$1250 per month and a graduated commission of 0.4% on the first \$100,000 of sales, and 0.5% on sales over \$100,000. Last month, Isaac's gross salary was \$2025. What were his sales for the month?
  - A. \$75,000
  - B. \$200,000
  - C. \$312,500
  - D. \$250,000
  - **E.** \$175,000

Difficulty: Haro

Jerome - Chapter 01 #254

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

255. Elita took six courses last semester. Her grades and course credits are as follows:

Course	Grade	Credits
Accounting	B+	4
Business Mathematics	A	4
Human Resources	В	3
Economics	C+	4
Computer Applications	С	2
Marketing	D	3

Use the Letter Grade to Grade Point Value conversion table below to calculate her grade point average for the semester.

Letter Grade	Grade Points		
A+	4.0		
A	4.0		
B+	3.5		
В	3.0		
C+	2.5		
С	2.0		
D	1.0		
F	0.0		

- <u>**A.</u>** 2.8</u>
- B. 2.7
- C. 3.3
- D. 3.0
- E. 3.5

Difficulty: Easy

Jerome - Chapter 01 #255

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Test bank

Topic: Basic Mathematics

256. Jayelle took six courses last semester. Her grades and course credits are as follows:

Course	Grade	Credits
Finance	B+	4
Statistics	С	2
General Education	B+	3
Macro Economics	В	3
Cost Accounting	В	4
Computer Applications	A+	2

Use the Letter Grade to Grade Point Value conversion table below to calculate her grade point average for the semester.

Letter Grade	Grade Points
A+	4.0
A	4.0
B+	3.5
В	3.0
C+	2.5
С	2.0
D	1.0
F	0.0

- A. 3.75
- **B**. 3.2
- C. 3.0
- D. 2.6
- E. 2.8

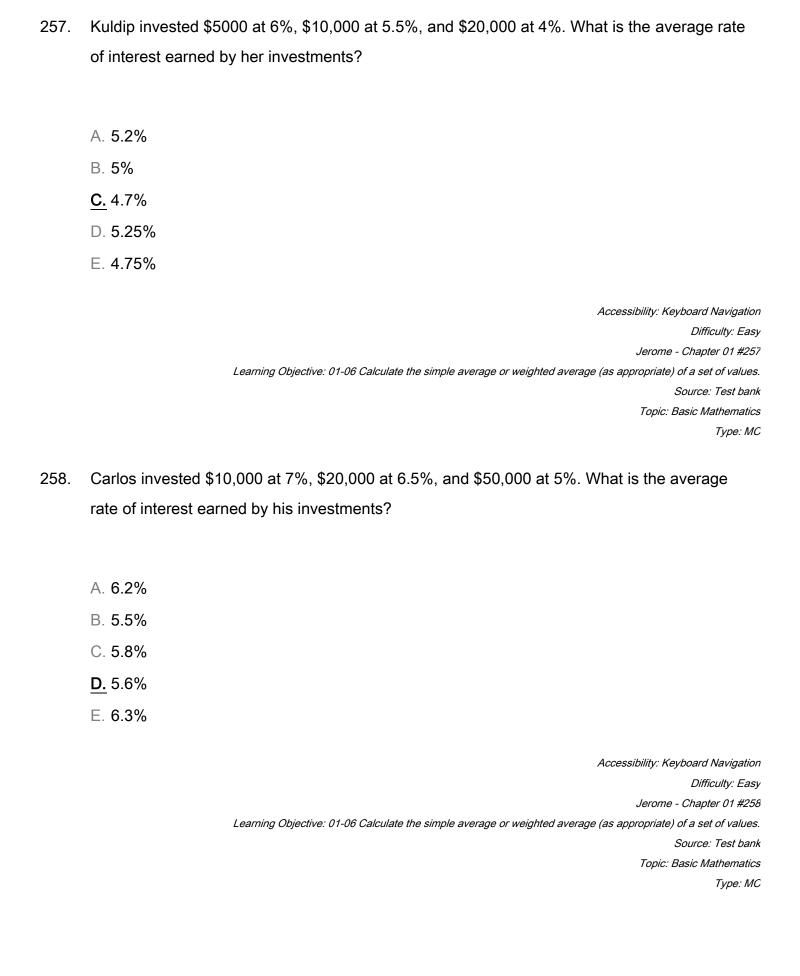
Difficulty: Easy

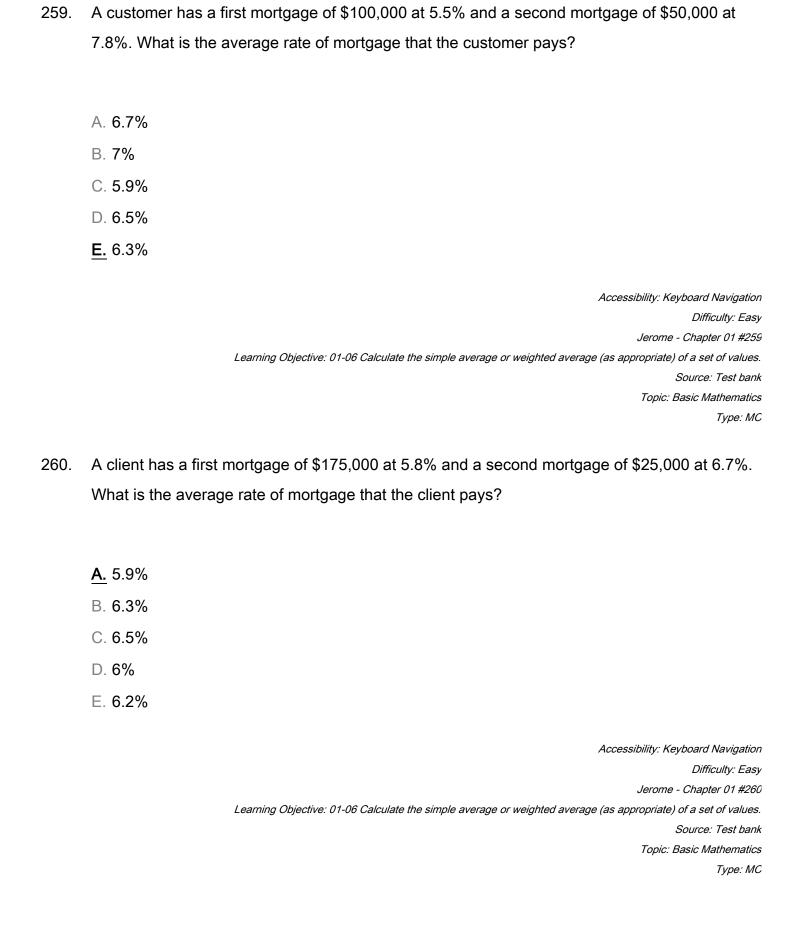
Jerome - Chapter 01 #256

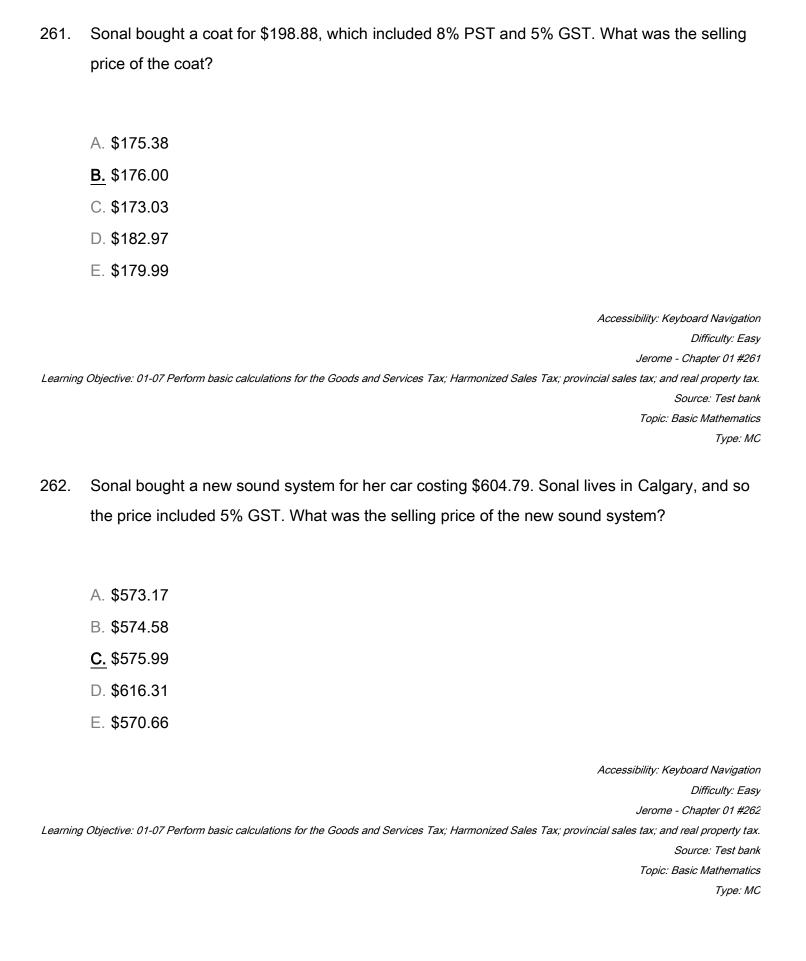
Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Test bank

Topic: Basic Mathematics







- 263. Calculate the PST on a sweater costing \$59.95 in Manitoba, Alberta, and Quebec. (Assume 5% GST).
  - A. \$4.77; \$0.00; \$5.98
  - B. \$4.80; \$4.77; \$4.50
  - C. \$4.80; \$4.50; \$4.77
  - **D.** \$4.80; \$0.00; \$5.98
  - E. \$4.77; \$0.00; \$4.20

Difficulty: Easy

Jerome - Chapter 01 #263

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics

Type: MC

- 264. Calculate the PST on a jacket costing \$89.50 in Alberta, Manitoba, and Saskatchewan.
  - A. \$0.00; \$5.71; \$6.27
  - B. \$6.27; \$6.27; \$4.48
  - C. \$5.37; \$7.16; \$5.27
  - D. \$6.27; \$6.27; \$5.37
  - E. \$0.00; \$7.16; \$4.48

Accessibility: Keyboard Navigation

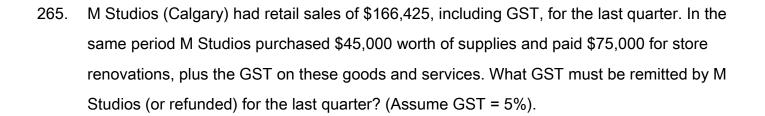
Difficulty: Easy

Jerome - Chapter 01 #264

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics





- B. \$2321.25
- C. \$14,323.26
- D. \$6071.25
- E. \$4573.26

Difficulty: Medium

Jerome - Chapter 01 #265

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics

Type: MC

266. M Studios (Ontario) had retail sales of \$288,528.55, including HST, for the last quarter. In the same period M Studios purchased \$250,000 worth of supplies and paid the GST on these goods. What GST must be remitted by M Studios (or refunded) for the last quarter? (Assume 8% PST and 5% GST).

- A. \$50.99
- **B.** \$266.75
- C. \$1926.43
- D. \$426.80
- E. \$5008.71

Accessibility: Keyboard Navigation

Difficulty: Medium

Jerome - Chapter 01 #266

# 267. A homeowner's tax statement lists the following mill rates for various municipal services:

Tax Rate	Mill Rate			
Schools	6.75			
City	7.21			
Water	0.92			
Sewers	0.87			

What is the property tax on a house assessed at \$300,000?

- A. \$4464
- B. \$4449
- <u>C.</u> \$4725
- D. \$2562
- E. \$2700

Difficulty: Easy

Jerome - Chapter 01 #267

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics

268. A homeowner's tax statement lists the following mill rates for various municipal services:

Tax Rate	Mill Rate		
Schools	6.75		
City	7.21		
Water	0.92		
Sewers	0.87		

The homeowner paid \$3937.50 in property taxes last year. What is the assessed value of his property?

- A. \$264,617
- B. \$265,509
- C. \$461,066
- **D.** \$250,000
- E. \$437,500

Difficulty: Medium

Jerome - Chapter 01 #268

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics

Type: MC

269.

$$\frac{\frac{3}{4} + \frac{7}{5}}{\frac{11}{6} - \frac{10}{12}} =$$

Evaluate:

- A. 0.465
- B. 0.80625
- C. 1.24031
- D. 12.9
- **E.** 2.15

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

- A. 5.4545
- B. 0.05
- C. -0.1528
- D. 6.5454
- **E.** 0.1833

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #270

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: MC

- **A.** 0.0005
- B. 0.005
- C.  $\frac{51}{10.000}$
- D.  $\frac{3}{2000}$
- E. 5000

Difficulty: Medium

Jerome - Chapter 01 #271

Source: Test bank

Topic: Basic Mathematics

Type: MC

272. 
$$\frac{\frac{6}{7} + \frac{2}{3}}{\frac{3}{7}}$$
 Evaluate

- A. 24.89
- **B.** 3.556
- C. 4.190
- D. 6.429
- E. 5.071

Difficulty: Medium

Jerome - Chapter 01 #272

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

- A. 2.4
- <u>B.</u> -0.067
- C. -2.4
- D. 0.444
- E. -I.0

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #273

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

# 274. Evaluate -14(2) + 16 / 32 + 4 =

- A. -22
- B.  $-24\frac{1}{2}$
- C.  $-28\frac{4}{9}$
- D.  $-24\frac{4}{9}$
- <u>E.</u>  $-23\frac{1}{2}$

Difficulty: Easy

Jerome - Chapter 01 #274

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

Type: MC

275. Evaluate 
$$(25 - 9) / (6 - 2)^2 =$$

- A. 256
- **B**. 1
- C. 8
- D. 4
- E. 0.5

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #275

Learning Objective: 01-01 Perform arithmetic operations in their proper order.

Source: Test bank

Topic: Basic Mathematics

$$\frac{5 - \left(6 - 14\right)}{200 - 0.25 \times \frac{3000}{15}}$$

#### Evaluate

- A. 0.1267
- B. 0.052
- **C.** 0.0867
- D. 0.076
- E. -0.07667

Difficulty: Medium

Jerome - Chapter 01 #276

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

277. 
$$16 - 4\left(1 - 0.3 \div \frac{435}{650}\right) =$$

A. 6.621

B. 17.379

**C.** 13.793

D. 10.207

E. 12.803

Difficulty: Easy

Jerome - Chapter 01 #277

Learning Objective: 01-01 Perform arithmetic operations in their proper order. Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Express as a percent:

- •
- **A.** 50.375%
- B. 0.0050375%
- C. 0.50375%
- D. 5.0375%
- E. 503.75%

Difficulty: Easy

Jerome - Chapter 01 #278

Learning Objective: 01-02 Convert fractions to their percent and decimal equivalents.

Learning Objective: 01-03 Maintain the proper number of digits in calculations.

Source: Test bank

Topic: Basic Mathematics

Type: MC

- 279. A piece of property valued at \$2,000,000 is assessed for property tax purposes at 70% of its value. If the property tax is \$20.00 on each \$1000.00 of assessed value, what is the amount of tax?
  - A. \$23,700.00
  - B. \$4000.00
  - <u>C.</u> \$28,000.00
  - D. \$12,000.00
  - E. \$40,000.00

Accessibility: Keyboard Navigation

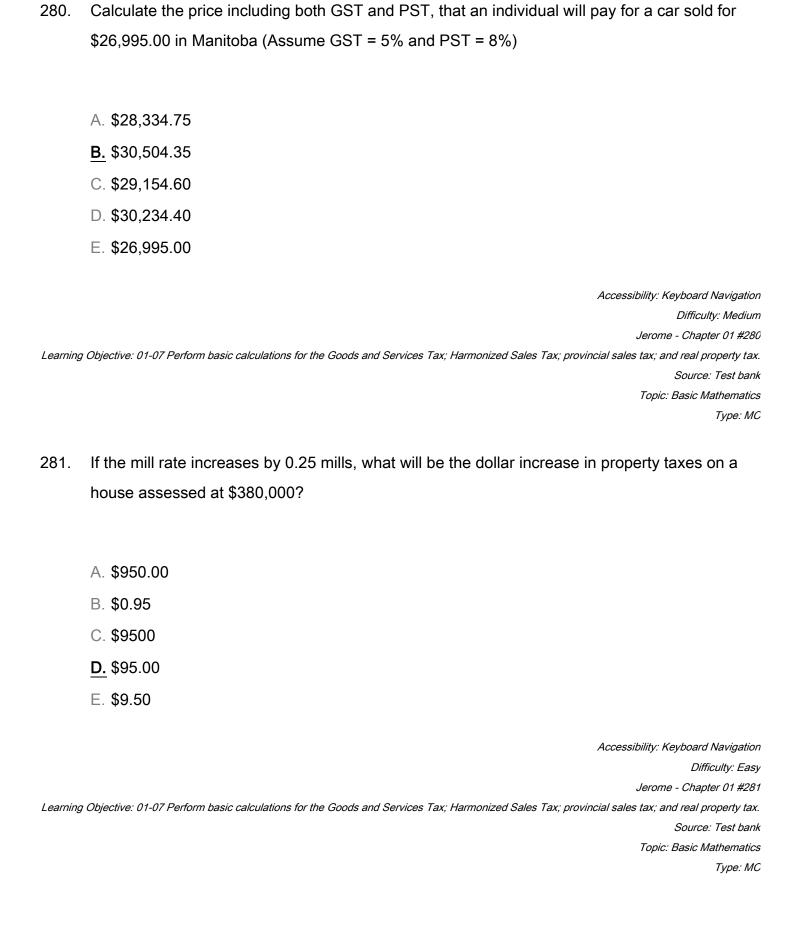
Difficulty: Medium

Source: Test bank

Jerome - Chapter 01 #279

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Topic: Basic Mathematics



282.	Fred has an annual salary of \$40,000.00. He is paid semi-monthly and his regular workweek is
	40 hours. What is his regular salary per pay period?

- A. \$1538.46
- B. \$1458.33
- C. \$3076.92
- **D.** \$1666.67
- E. \$3333.33

Difficulty: Easy

Jerome - Chapter 01 #282

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

Type: MC

#### 283. A class of 25 students wrote a term test. The results out of 30 marks are as follows:

Score:	10	15	20	25	30	
Number of Students:	2	3	10	6	4	

What was the average score on the test?

- A. 20
- B. 25
- C. 22
- **D.** 21.4
- E. 17.5

Difficulty: Medium

Jerome - Chapter 01 #283

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Test bank

Topic: Basic Mathematics

284.	An investor purchased shares of Acme Company as follows: 500 shares @ \$10 per share,
	10,000 shares @ \$6.00 per share, and 1000 shares at \$4.00 per share. What is the investor's
	average cost per share?
	A. \$7.00
	<b>B.</b> \$6.00
	C. \$6.67
	D. \$23,000
	E. \$6.50
	Accessibility: Keyboard Navigation
	Difficulty: Medium
	Jerome - Chapter 01 #284
	Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.
	Source: Test bank Topic: Basic Mathematics
	Type: MC
	A municipality requires an extra \$3,000,000 for its operating budget next year. The current mill
	rate is 8.3573 and the assessed values of properties in the municipality remains constant at
	\$8.58 billion.
	Jerome - Chapter 01
285.	Calculate next year's mill rate.
	A 0.2407
	A. 8.3497
	B. 8.3923
	C. 11.8538
	D. 9.7684
	<u>E.</u> 8.7070

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics

Type: MC

286. If the total of all assessed values rises by 5% over the current assessment, at what value must next year's mill rate be set?

- A. 8.6903
- **B.** 8.2923
- C. 7.9923
- D. 9.7684
- E. 8.3906

Accessibility: Keyboard Navigation

Difficulty: Medium

Jerome - Chapter 01 #286

Learning Objective: 01-07 Perform basic calculations for the Goods and Services Tax; Harmonized Sales Tax; provincial sales tax; and real property tax.

Source: Test bank

Topic: Basic Mathematics

Type: MC

Fred is paid an annual salary of \$45,800 on a biweekly schedule for a 40-hour work week and 26 biweekly periods per year.

Jerome - Chapter 01

# What is his gross salary per pay period? 287. A. \$1908.33 B. \$1815.93 C. \$1616.18 D. \$1755.51 **E.** \$1761.54 Accessibility: Keyboard Navigation Difficulty: Easy Jerome - Chapter 01 #287 Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions. Source: Test bank Topic: Basic Mathematics Type: MC What is his hourly pay rate? 288. A. \$44.44 B. \$43.89 C. \$47.71 **D.** \$44.04 E. \$38.76

Accessibility: Keyboard Navigation

Difficulty: Easy

Jerome - Chapter 01 #288

Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.

Source: Test bank

Topic: Basic Mathematics

289.	What is his total remuneration for a two-week period in which he worked 4.5 hours overtime at time-and-a-half?
	<u>A.</u> \$2058.81
	B. \$2230.36
	C. \$1858.23
	D. \$1953.02
	E. \$2051.75
	Accessibility: Keyboard Navigation
	Difficulty: Easy  Jerome - Chapter 01 #289
	Learning Objective: 01-05 Calculate the gross earnings of employees paid a salary; an hourly wage; or commissions.
	Source: Test bank Topic: Basic Mathematics
	Type: MC
	Store A sold 30 units at \$1.25 per unit.
	Store B sold 60 units at \$1.95 per unit.
	Store C sold 9 units at \$1.50 per unit.
	Jerome - Chapter 01
290.	Ignoring the quantities sold, what was the average unit selling price for the three stores?
	A. \$0.33
	<u>B.</u> \$1.57
	C. \$155.10
	D. \$51.70
	E. \$1.70
	Accessibility: Keyboard Navigation
	Difficulty: Medium
	Jerome - Chapter 01 #290

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Test bank

Topic: Basic Mathematics

Type: MC

### 291. Recognizing the quantities sold, what was the average selling price per unit?

- A. \$0.33
- B. \$1.57
- C. \$155.10
- D. \$51.70
- <u>E.</u> \$1.70

Accessibility: Keyboard Navigation

Difficulty: Medium

Jerome - Chapter 01 #291

Learning Objective: 01-06 Calculate the simple average or weighted average (as appropriate) of a set of values.

Source: Test bank

Topic: Basic Mathematics

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# c1 Summary

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