CHAPTER 02—DECIMALS

1. Use digits to write each number that is expressed in words.

a. Eighteen and fifteen thousandths _____
b. Seven and twenty-five thousandths _____
c. Four hundred eighty-eight ten-thousandths _____

ANSWER: a. 18.015 b. 7.025 c. 0.0488
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.1
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

2. Use digits to write each number that is expressed in words.

a. Thirty-five thousandths _____
b. Five hundred thousand six and twelve thousandths _____
c. Five thousand two hundred-thousandths _____

ANSWER: a. 0.035 b. 500,006.012 c. 0.05002
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.1
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

3. Use words to write each number that is expressed in digits.

a. 4.284 _____
b. 207.0027 _____
c. 6.099 _____

ANSWER:
a. four and two hundred eighty-four thousandths
b. two hundred seven and twenty-seven ten-thousandths
c. six and ninety-nine thousandths

POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.1
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

4. Use words to write each number that is expressed in digits.

a. 0.7008 _____
b. 12.7344 _____
c. 4.00961 _____

ANSWER:
a. seven thousand eight ten-thousandths
b. twelve and seven thousand three hundred forty-four ten-thousandths
c. four and nine hundred sixty-one hundred-thousandths

POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT. 2.1

NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

5. Use words to write each number that is expressed in digits.

a. 0.6009 _____
b. 14.3476 _____
c. 7.00583_____

ANSWER:
a. six thousand nine ten-thousandths
b. fourteen and three thousand four hundred seventy-six ten-thousandths
c. seven and five hundred eighty-three hundred-thousandths

POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.1
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

6. Round each monetary amount to the nearest cent; round the non-monetary numbers to the nearest thousandth.

a. $41.875 _____
b. $1.2749 _____
c. 0.16493 inches _____
d. 0.22499 feet _____
e. 4.099489 pounds _____
f. $0.44501 _____

ANSWER:
a. $41.88 b. $1.27 c. 0.165 inches
d. 0.225 feet e. 4.099 pounds f. $0.45

POINTS: 3
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.2
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

7. Round each monetary amount to the nearest cent; round the nonmonetary numbers to the nearest thousandth.

a. $0.24499 _____
b. $36.4451 _____
c. 0.69164 pounds _____
d. 2.63151 gallons _____
e. 2.375388 feet _____

ANSWER:
a. $0.24 b. $36.45 c. 0.692 pounds
d. 2.632 gallons e. 2.375 feet

POINTS: 3
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.2
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

8. Add the following decimal numbers.

a. 0.885
0.39
+ 0.0053

b. 0.146
1.7092
+ 0.0045

c. 1.356
0.4291
+ 2.99

ANSWER: a. 1.2803 b. 1.8597 c. 4.7751
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

9. Add the following decimal numbers.

a. 36.7484
590.28
+ 4.1763

b. 904.98
72.5772
+ 2,404.115

c. 0.055
4.56
+ 39.7468

ANSWER: a. 631.2047 b. 3,381.6722 c. 44.3618
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

10. Add the following decimal numbers.

a. 0.854
0.86
+ 0.3528

b. 0.85
0.3534
+ 0.688

c. 21.646
3.7179
+ 468.58

ANSWER: a. 2.0668 b. 1.8914 c. 493.9439
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

11. Add the following decimal numbers.

a. 49.8715
801.97
+ 48.4338

b. 444.92
75.0886
+ 2,500.

c. 0.07
1.283
+ 0.93

ANSWER: a. 900.2753 b. 3,020.0086 c. 2.283
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

12. Subtract the following decimal numbers.

a. 4.5051
- 0.31747

b. 0.724
- 0.4681

c. 34.1023
- 7.619

ANSWER: a. 4.18763 b. 0.2559 c. 26.4833
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

13. Subtract the following decimal numbers.

a. 414.02
- 175.624

b. 6,000.
-197.462

c. 2.101
- 1.898

ANSWER: a. 238.396 b. 5,802.538 c. 0.203
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

14. Subtract the following decimal numbers.

a. 1.00425
- 0.32559

b. 0.37
- 0.2206

c. 84.34475
- 39.667

ANSWER: a. 0.67866 b. 0.1494 c. 44.67775
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

15. Subtract the following decimal numbers.

a. 207.011
- 139.0125

b. 5,000.
- 1,500.25

c. 22.021
- 6.45123

ANSWER: a. 67.9985 b. 3,499.75 c. 15.56977
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

16. Three boxes of pears weighing 32.4, 33.8, and 33.4 pounds were shipped. Compute the total weight.
ANSWER: 32.4 + 33.8 + 33.4 = 99.6 pounds
POINTS: 1
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3

NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

17. An electrical contractor started the day with 284.2 feet of 10 gauge copper wire. He used 42.5 feet on one job and 114.8 feet on another job. How many feet of wire did he have at the end of the day?
ANSWER: 42.5 + 114.8 = 157.3; 284.2 - 157.3 = 126.9 feet
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

18. A restaurant had 18.6 pounds of pork on Wednesday morning and received 20.9 pounds on Wednesday. On Thursday morning it had 9.8 pounds on hand. How many pounds did it use on Wednesday?
ANSWER: 18.6 + 20.9 = 39.5 pounds; 39.5 - 9.8 = 29.7 pounds
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

19. A cake cafe had 50 pastries on Monday morning and received 20 pastries on Monday afternoon. On Tuesday morning it had 10 pastries on hand. How many pastries did it use on Monday?
ANSWER: 50 + 20 = 70 pastries; 70 - 10 = 60 pastries
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

20. A salesperson drives 74.9 miles on Monday, 59.8 on Tuesday, 65.5 on Wednesday, and 86.4 on Thursday. On Friday the salesperson stayed home. What was the total distance traveled last week?
ANSWER: 74.9 + 59.8 + 65.5 + 86.4 = 286.6 miles
POINTS: 1
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

21. A grocery store had 76.4 pounds of chicken in refrigeration on Friday morning. During the day, customers purchased 48.9 pounds, and 8.8 pounds were waste and thrown away. Calculate the number of pounds that were left on Friday night.
ANSWER: 48.9 + 8.8 = 57.7 pounds gone; 76.4 - 57.7 = 18.7 pounds remaining
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic

KEYWORDS: Bloom's: Application

22. A production engineer wanted to know how long it should take to make metal rods with a lathe. Four rods were made, and the time was recorded. The results were 28.5 seconds, 29.2 seconds, 31.8 seconds, and 29.7 seconds. Compute the total time to make all four rods.
ANSWER: 28.5 + 29.2 + 31.8 + 29.7 = 119.2 seconds
POINTS: 1
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

23. A fresh produce wholesaler shipped 247.8 pounds of apples, 166.3 pounds of pears, and 109.7 pounds of plums to three small neighborhood grocery stores. What was the total weight of the fruit shipped?
ANSWER: 247.8 + 166.3 + 109.7 = 523.8 pounds
POINTS: 1
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

24. On April 12, a tax accountant took six tax returns to the post office. They weighed 4.2, 7.7, 8.5, 6.3 8.1, and 6.3 ounces. Determine the total weight in ounces.
ANSWER: 4.2 + 7.7 + 8.5 + 6.3 + 8.1 + 6.3 = 41.1 ounces
POINTS: 1
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

25. A pet store had $468.42 cash on hand. It received cash payments of $62.88 and $59.14. It paid out $56.50 to have the windows washed. Determine the amount of cash the pet store had left.
ANSWER: $468.42 + $62.88 + $59.14 - $56.50 = $533.94
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

26. A pharmacy started the month with $124.57 worth of dental floss. During the month, it received dental floss worth $42.44 and sold dental floss worth $89.95. Compute the value of the remaining dental floss.
ANSWER: $124.57 + $42.44 = $167.01; $167.01 - $89.95 = $77.06
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic

KEYWORDS: Bloom's: Application

27. A restaurant had $356.87 cash on hand in the morning. Total cash receipts were $873.45 from lunch and $1,462.58 from dinner. The restaurant gave $2,200 cash to a security service at closing time. What was the amount of cash on hand?
ANSWER: $356.87 + $873.45 + $1,462.58 = $2,692.90; $2,692.90 - $2,200.00 = $492.90
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

28. A fruit vendor had $467.98 cash on hand in the morning. Total cash receipts after selling fruits during afternoon were $984.56 and during night were $2,573.69. The fruit vendor gave $3,300 cash to the owner of the store at closing time. What was the amount of cash on hand?
ANSWER: $467.98 + $984.56 + $2,573.69 = $4026.23; $4026.23 - $3,300.00 = $726
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

29. A hardware store sells most kinds of nails by the pound. A contractor bought 6.8 pounds of roofing nails, 7.7 pounds of "10-penny" nails, and 8.2 pounds of "8-penny" nails. Compute the total pounds of nails that the contractor bought.
ANSWER: 6.8 + 7.7 + 8.2 = 22.7 pounds
POINTS: 1
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

30. A landscaping firm brought three trucks loaded with topsoil to a job site. Two trucks carried 7.75 cubic yards each, and one truck carried 5.25 cubic yards. When the job was finished, 3.5 cubic yards remained. Find the number of cubic yards used.
ANSWER: 7.75 + 7.75 + 5.25 = 20.75 cubic yards; 20.75 - 3.50 = 17.25 cubic yards
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

31. An office administrator finished word processing a two-page letter and its envelope in 13.8 minutes. He entered page one of the letter in 5.9 minutes and entered page two in 4.8 minutes. Compute the time that he spent printing the letter and preparing the envelope. (i.e., not entering the two pages of text).
ANSWER: 5.9 + 4.8 = 10.7 minutes entering text; 13.8 - 10.7 = 3.1 minutes printing and preparing the envelope or, 13.8 - 5.9 - 4.8 = 3.1
POINTS: 1

DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

32. To promote good employee health, the cafeteria at a corporation serves many fresh vegetables. It bought 21.4 pounds of celery, 33.2 pounds of carrots, 8.6 pounds of radishes, 12.8 pounds of broccoli, and 52.6 pounds of lettuce. What was the total weight of the vegetables purchased?
ANSWER: 21.4 + 33.2 + 8.6 + 12.8 + 52.6 = 128.6 pounds
POINTS: 1
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.3
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

33. When it opened on Monday morning, a local delicatessen had 26.8 pounds of salami. During the week, it received a shipment of 84.9 pounds of salami. Also during the week, it used 42.8 pounds of salami in sandwiches and sold 34.2 pounds in bulk to retail customers. How much salami remained at the end of the week?
ANSWER: 26.8 + 84.9 - 42.8 - 34.2 = 34.7 pounds
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

34. On Tuesday, a produce market sold 11.8 pounds of tangerines, 18.3 pounds of oranges, and 12.5 pounds of grapefruit. On Saturday, it sold 19.4 pounds of tangerines, 31.7 pounds of oranges, and 22.6 pounds of grapefruit. How many more pounds of these fruits did the market sell on Saturday than on Tuesday?
ANSWER: 11.8 + 18.3 + 12.5 = 42.6 pounds sold on Tuesday
19.4 + 31.7 + 22.6 = 73.7 pounds sold on Saturday
73.7 - 42.6 = 31.1 more pounds sold on Saturday
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.4
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

35. Multiply; round off monetary products to the nearest cent. Do not round off the non-monetary products.

a. 5.193 ´ 6.2 b. $4.87 ´ 25.2 c. 9.486 ´ 0.037
ANSWER: a. 32.1966 b. $122.72 c. 0.350982
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

36. Multiply; round off monetary products to the nearest cent. Do not round off the non-monetary products.

a. 326.3 ´ 1.065 b. $76.44 ´ 6.7 c. $25.65 ´ 4.27

ANSWER: a. 347.5095 b. $512.15 c. $109.53
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

37. Multiply; round off monetary products to the nearest cent. Do not round off the non-monetary products.

a. $46.82 ´ 14.1 b. 0.625 ´ 0.25 c. $427.79 ´ 8.7

ANSWER: a. $660.16 b. 0.15625 c. $3,721.77
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

38. Multiply; round off monetary products to the nearest cent. Do not round off the non-monetary products.

a. 31.402 ´ 6.55 b. $15.375 ´ 600 c. 16.54 ´ 3.93

ANSWER: a. 205.6831 b. $9,225 c. 65.0022
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

39. Multiply; round off monetary products to the nearest cent. Do not round off the non-monetary products.

a. 5.95 ´ 0.025 b. $45.83 ´ 21.6 c. 470.028 ´ 0.0906

ANSWER: a. 0.14875 b. $989.93 c. 42.5845368
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

40. Multiply; round off monetary products to the nearest cent. Do not round off the non-monetary products.

a. $0.625 ´ 8,000 b. 4.7807 ´ 1.309 c. $27.35 ´ 16.75

ANSWER: a. $5,000 b. 6.2579363 c. $458.11
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic

KEYWORDS: Bloom's: Application

41. Divide; round off monetary quotients to the nearest cent; round non-monetary quotients to four decimal places.

a. $17.55 ¸ 7 b. 13.115 ¸ 3.28 c. 1.32 ¸ 0.16

ANSWER: a. $2.51 b. 3.9985 c. 8.25
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

42. Divide; round off monetary quotients to the nearest cent; round non-monetary quotients to four decimal places.

a. 4.4868 ¸ 2.53 b. 7.52 ¸ 0.45 c. $154.75 ¸ 75

ANSWER: a. 1.7734 b. 16.7111 c. $2.06
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

43. Divide; round off monetary quotients to the nearest cent; round non-monetary quotients to four decimal places.

a. 0.038 ¸ 0.007 b. $358.88 ¸ 11.6 c. 0.45409 ¸ 0.649

ANSWER: a. 5.4286 b. $30.94 c. 0.6997
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

44. Divide; round off monetary quotients to the nearest cent; round non-monetary quotients to four decimal places.

a. $5.92 ¸ 0.25 b. $1,524.50 ¸ 310 c. 6.275 ¸ 13

ANSWER: a. $23.68 b. $4.92 c. 0.4827
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

45. Divide; round off monetary quotients to the nearest cent; round non-monetary quotients to four decimal places.

a. $72.63 ¸ 5.4 b. 112.25 ¸ 8.27 c. $306.03 ¸ 5.05

ANSWER: a. $13.45 b. 13.5732 c. $60.60
POINTS: 2
DIFFICULTY: Easy

LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

46. Divide; round off monetary quotients to the nearest cent; round non-monetary quotients to four decimal places.

a. 12.6 ¸ 0.692 b. 627.17 ¸ 1.7 c. $12.25 ¸ 40

ANSWER: a. 18.2081 b. 368.9235 c. $0.31
POINTS: 2
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

47. Solve the following multiplication and division problems by moving the decimal point to the right or left.

a. $41.00 ¸ 100 = _____
b. 6.34 pints ´ 1,000 = _____
c. 5,280 feet ¸ 1,000 = _____
d. $15.42 ´ 10,000 = _____
e. 7.47 yards ´ 100 = _____

ANSWER: a. $0.41 b. 6,340 pints c. 5.28 feet
d. $154,200 e. 747 yards
POINTS: 3
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.7
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

48. Solve the following multiplication and division problems by moving the decimal point to the right or left.

a. $23.00 ¸ 100 = _____
b. 7.45 yards ´ 1,000 = _____
c. 6,391 pints ¸ 1,000 = _____
d. $26.53 ´ 10,000 = _____
e. 8.58 gallons ´ 100 = _____

ANSWER: a. $0.23 b. 7,450 yards c. 6.391 pints
d. $265,300 e. 858 gallons
POINTS: 3
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.7
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

49. Solve the following multiplication and division problems by moving the decimal point to the right or left.

a. 745.6 ounces ¸ 1000 = _____
b. $47.50 ´ 10 = _____
c. 0.036 gallons ´ 10,000 = _____

d. $71.50 ¸ 10 = _____
e. 212.75 yards ´ 100 = _____

ANSWER: a. 0.7456 ounces b. $475 c. 360 gallons
d. $7.15 e. 21,275 yards

POINTS: 3
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.7
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

50. For each of the following multiplication and division problems, determine which estimate is most nearly correct.

a. 0.391 ´ 81.425
A) 0.32
B) 3.2
C) 32
D) 320

b. 0.0874 ´ 0.0539
A) 0.0047
B) 0.047
C) 0.47
D) 4.7

c. 0.30667 ´ 4.8508
A) 0.15
B) 1.5
C) 15
D) 150

d. 701.47 ¸ 19.15
A) 0.37
B) 3.7
C) 37
D) 370

e. 0.652 ¸ 0.816
A) 0.08
B) 0.8
C) 8
D) 80

f. 0.0000733 ¸ 0.0789
A) 0.00009
B) 0.0009
C) 0.009
D) 0.09

ANSWER: a. C) 32 b. A) 0.0047 c. B) 1.5
d. C) 37 e. B) 0.8 f. B) 0.0009

POINTS: 3
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.8
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

51. David's Delicatessen sells macaroni salad for $1.15 per half-pint. Using 1 quart = 2 pints, compute the cost of 4.25 quarts of macaroni salad. (Round to the nearest cent.)

ANSWER: $1.15 ´ 2 = $2.30 per pint; 4.25 quarts ´ 2 pints per quart = 8.5 pints;
8.5 pints ´ $2.30 = $19.55

POINTS: 1
DIFFICULTY: Challenging
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

52. Waterfront Restaurant sells "chili-to-go" for $8.75 per quart. Using 1 gallon = 4 quarts, compute cost of 1.75 gallons of chili. (Round to the nearest cent.)

ANSWER: 1.75 gal ´ 4 quarts per gal = 7 quarts; 7 quarts ´ $8.75 per quart = $61.25

POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic

KEYWORDS: Bloom's: Application

53. Kathy Reynolds, a college student, works as a part-time retail clerk in a clothing store. Kathy can buy clothes at a discount and earns $12.45 per hour. Compute her earnings for a week when she worked 17.25 hours. (Round to the nearest cent.)
ANSWER: $12.45 per hour ´ 17.25 hours = $214.76
POINTS: 1
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

54. High school student Kevin Parris worked after school for 3.8 hours on Wednesday and 4.25 hours on Friday. Calculate the amount that Kevin earned at $8.65 per hour. (Round to the nearest cent.)
ANSWER: 3.8 + 4.25 = 8.05 hours; 8.05 hours ´ $8.65 per hour = $69.63
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

55. Eleanor Gunther earned $102.60 for working 6.75 hours. What was Eleanor's rate of pay per hour? (Round to the nearest cent.)
ANSWER: $102.60 ¸ 6.75 hours = $15.20 per hour
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

56. Oswald Garden Service charges $16.55 per hour per man for general yard maintenance, but charges $22.75 per hour for cement work and tree removal. Compute their total charges for a job which took 9.8 man-hours of general yard maintenance work and 3.6 man-hours of tree removal. (Round to the nearest cent.)
ANSWER: 9.8 hours ´ $16.55 per hour = $162.19; 3.6 hours ´ $22.75 per hour = $81.90;
$162.19 + $81.90 = $244.09
POINTS: 1
DIFFICULTY: Challenging
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

57. Betsy's new car travels 36.4 miles on one gallon of gasoline. How far can her car go on 8.25 gallons of gasoline? (Round to the nearest tenth.)
ANSWER: 36.4 miles per gallon ´ 8.25 gallons = 300.3 miles
POINTS: 1
DIFFICULTY: Moderate

LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

58. Oscar's new pickup truck travels 30.8 miles on one gallon of gasoline. Compute the gallons of gasoline that his truck would use on a 450-mile journey. (Round to the nearest tenth.)
ANSWER: 450 miles ¸ 30.8 miles per gallon = 14.6 gallons
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

59. The former owner of a used car told the new buyer that the car could travel for 36.4 miles on one gallon of gasoline. The buyer tested the car by driving it for 170 miles on 4.5 gallons of gasoline. Was this better or worse than the claim, and by how many miles per gallon? (Round to the nearest tenth.)
ANSWER: 170 miles ¸ 4.5 gallons = 37.8 miles per gallon;
37.8 - 36.4 = 1.4 miles per gallon better
POINTS: 1
DIFFICULTY: Challenging
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

60. In the winter, imported red bell peppers sell for $4.99 per pound. What is the total price of six red peppers which have a combined weight of 3.16 pounds? (Round to the nearest cent.)
ANSWER: $4.99 ´ 3.16 pounds = $15.77
POINTS: 1
DIFFICULTY: Challenging
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

61. An automobile repair facility recently purchased a 200-foot roll of flexible plastic tubing for $48.25. Compute the cost in cents per foot. (Round to the nearest cent.)
ANSWER: $48.25 ¸ 200 feet = $0.24125, or 24 cents per foot
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

62. A hardware store sells rubber tubing by the foot. If a seventy-five-foot roll of tubing eventually sells for a total of $54, how much did the store charge per foot? (Round to the nearest cent.)
ANSWER: $54 ¸ 75 feet = $0.72, or 72 cents per foot
POINTS: 1

DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

63. Bill Pierson buys a 125-foot roll of latex tubing for $35. Bill cuts the tubing into shorter pieces and resells all of it for a total of $57.50. Compute Bill's profit per foot. (Round to the nearest cent.)
ANSWER: $57.50 - $35 = $22.50 total profit; $22.50 ¸ 125 feet = $0.18 profit per foot
Or, 57.50 ¸ 125 feet = $0.46 revenue per foot; 35 ¸ 125 feet = $0.28 cost per foot;
$0.46 - $0.28 = $0.18 profit per foot
POINTS: 1
DIFFICULTY: Challenging
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

64. A certain cut of beef costs $7.59 per pound, and a similar cut of pork costs $5.19 per pound. What is the total cost of 3.25 pounds of the beef and 3.75 pounds of the pork? (Round to the nearest cent.)
ANSWER: 3.25 pounds ´ $7.59 per pound = $24.67 for the beef
3.75 pounds ´ $5.19 per pound = $19.46 for the pork
$24.67 + $19.46 = $44.13 total
POINTS: 1
DIFFICULTY: Challenging
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

65. A warehouse store sells a package of 125 steel washers for $2.75. What is the price per washer when they are purchased in this package? (Find the price to the nearest tenth of a cent.)
ANSWER: $2.75 ¸ 125 = $0.022 or 2.2 cents per washer.
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

66. The wholesale price of a plastic irrigation bubbler is 25 cents. How many plastic bubblers can be purchased for $165? (Round to the nearest whole number.)
ANSWER: $165 ¸ 25 cents = $165 ¸ $0.25 = 660 bubblers
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

67. The wholesale price of 6-ounces plastic bottles is 6 cents. How many plastic bottles can be purchased for $100?

(Round to the nearest whole number.)
ANSWER: $100 ¸ 6 cents = $100 ¸ $0.06 = 1667 plastic bottles
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

68. Rubber washers are sold for 37.5 cents per dozen, wholesale. Compute the amount that will be charged for 480 dozen washers. (Round to the nearest dollar.)
ANSWER: 480 ´ 37.5 cents = 480 ´ $0.375 = $180
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

69. Large aluminum tubing costs $1.27 per foot. At that price, what will be the total cost of 1,500 feet of the tubing? (Round to the nearest dollar.)
ANSWER: 1,500 ´ $1.27 = $1,905
POINTS: 1
DIFFICULTY: Easy
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

70. Julian's City Hardware store sells single strand 12-gauge copper electrical wire at 18 cents per foot. The same wire also comes in a 250-foot roll for $37.49 a roll. At the 18 cents per foot price, how many feet would the customer be able to purchase for $37.49? (Round to the nearest tenth.)
ANSWER: $37.49 ¸ $0.18 per foot = 208.3 feet
POINTS: 1
DIFFICULTY: Moderate
LEARNING OBJECTIVES: CBMC.DEIT.2.6
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

71. Seaside Fish Market sells halibut for $16.49 per pound and red snapper for $11.69 per pound. What is the total cost of 1.55 pounds of halibut and 2.77 pounds of red snapper? (Round to the nearest cent.)
ANSWER: 1.55 pounds ´ $16.49 per pound = $25.56 for the halibut
2.77 pounds ´ $11.69 per pound = $32.38 for the red snapper
$25.56 + $32.38 = $57.94 total
POINTS: 1
DIFFICULTY: Challenging
LEARNING OBJECTIVES: CBMC.DEIT.2.5
NATIONAL STANDARDS: United States - BUSPROG: Analytic
KEYWORDS: Bloom's: Application

72. SFM electronics sell laptops for $456 per piece and desktops for $530 per piece. What is the total cost of 10 laptops and 12 desktops? (Round to the nearest cent.)

ANSWER: 10 pieces ´ $456 per piece = $4,560.00 for the laptops
12 pieces ´ $530 per piece = $6360.00 for the desktops
$4,560.00 + $6360.00 = $10,920.00 total

POINTS: 1

DIFFICULTY: Challenging

LEARNING OBJECTIVES: CBMC.DEIT.2.5

NATIONAL STANDARDS: United States - BUSPROG: Analytic

KEYWORDS: Bloom's: Application

73. Dave Miles earns $10.60 per hour working in a restaurant on weekdays. If Dave works at least 30 hours during the week on weekdays, then he earns $15.90 per hour on the following Saturday. How much would Dave earn during a week in which he worked 36.25 hours during a week and 7.5 additional hours on the following Saturday? (Round to the nearest cent.)

ANSWER: 36.25 hours ´ $10.60 per hour = $384.25 during the week
7.5 hours ´ $15.90 per hour = $119.25 on Saturday
$384.25 + $119.25 = $503.50 total

POINTS: 1

DIFFICULTY: Challenging

LEARNING OBJECTIVES: CBMC.DEIT.2.5

NATIONAL STANDARDS: United States - BUSPROG: Analytic

KEYWORDS: Bloom's: Application