Full Download: https://alibabadownload.com/product/financial-accounting-12th-edition-thomas-solutions-manual/

Chapter 3

Accrual Accounting & Income

Ethics Check

(5-10 min.) EC 3-1

- a. Integrity
- b. Integrity
- c. Objectivity and independence
- d. Due Care

(10 min.) S 3-1

	Millions
Sales revenue	\$ 950
Cost of goods sold	(260)
All other expenses	(275)
Net income	<u>\$ 415</u>

Beginning cash	\$ 75
Collections	876
Payments for: inventory	(410)
everything else	(250)
Ending cash	<u>\$ 291</u>

(10 min.) S 3-2

Statement	Reports (Amounts in millions)	
1. Income statement	Interest expense	\$ 1.1
2. Balance sheet	Notes payable (\$4.0 + \$1.9 − \$1.7) Interest payable	\$4.2 0.2

At the end of each accounting period, the business reports its performance through the preparation of financial statements. In order to be useful to the various users of financial statements they must be up-todate. Accounts such as Cash, Equipment, Accounts Payable, Common Stock and Dividends are up-to date and require no adjustment at the end of the accounting period. Accounts such as Accounts Receivable, Supplies, Salary Expense and Salary Payable may not be up to date as of the last day of the accounting period. Why? Because certain transactions that took place during the month may not have been recorded.

The accrued salaries, which are owed to the employees but have not been paid, are an expense related to the current period but also represent a liability or debt that is owed by the business. The business must make an adjusting entry to record the accrued salary owed as both an increase in Salary Expense and an increase in Salary Payable. If the business does not make this adjustment, the expenses will be understated, net income will be overstated, and liabilities will be understated.

Student responses may vary.

The large auto manufacturer should record sales revenue when the revenue is earned by delivering automobiles to Budget or Hertz. The large auto manufacturer should *not* record any revenue prior to delivery of the vehicles, because the large auto manufacturer hasn't earned the revenue yet. The *revenue principle* governs this decision.

When the large auto manufacturer records the revenue from the sale, at that time — not before or after — the large auto manufacturer should also record cost of goods sold, the expense. The *expense recognition principle* tells when to record expenses.

a. The Expense Recognition Principle	(10 min.) S 3-5
a. The Expense Recognition Principle	
b. The Revenue Principle	
c. The Time-Period Concept	
d. The Expense Recognition Principle	
e. The Revenue Principle	
	(10 min.) S 3-6
(Amounts in millions)	(10 min.) S 3-6
(Amounts in millions) Income statement:	(10 min.) S 3-6 2018
Income statement:	2018

March 31	Rent Expense (\$7,200 × 1/6)	1,200	
	Prepaid Rent		1,200
	To record rent expense.		

Prepaid Rent			Rent Expense	•		
March 1	7,200	March 31	1,200	March 31	1,200	
Bal.	6,000			Bal.	1,200	

b.

March 31	Supplies Expense (1050 – \$400)	650	
	Supplies		650
	To record supplies expense.		

Supplies			Su	pplies Exp	ense	
March 1	1,050	March 31	650	March 31	650	
Bal.	400			Bal.	650	

(a)	Jan. 1	Equipment Cash Purchased equipment.	50,000	50,000
(b)	Dec. 31	Depreciation Expense – Equipment Accumulated Depreciation – Equipment Record depreciation expense.	12,500	12,500

Req. 2

	Accumulated Depreciation –	Depreciation Expense –
Equipment	Equipment	Equipment
Jan. 1 50,000	Dec. 31 12,500	Dec. 31 12,500
Bal. 50,000	Bal. 12,500	Bal. 12,500

Req. 3

Equipment	\$50,000
Less: Accumulated depreciation	<u>(12,500</u>)
Book value	<u>\$37,500</u>

Interest Expense Interest Payable To accrue interest expense for October.	825	825
Interest Expense Interest Payable To accrue interest expense for November.	825	825
Interest Expense Interest Payable To accrue interest expense for December.	825	825
	Interest Payable To accrue interest expense for October. Interest Expense Interest Payable To accrue interest expense for November. Interest Expense Interest Payable	Interest Payable To accrue interest expense for October.825Interest Expense Interest Payable To accrue interest expense for November.825Interest Expense Interest Payable825

Interest Payable				
	Oct.	31	825	
	Nov.		825	
	Dec.		825	
	Bal.		2,475	

Req. 3

Jan. 2	Interest Payable	2,475	
	Cash		2,475
	To pay interest.		

Oct. 31	Interest Receivable Interest Revenue To accrue interest revenue for October.	825	825
Nov. 30	Interest Receivable Interest Revenue To accrue interest revenue for November.	825	825
Dec. 31	Interest Receivable Interest Revenue To accrue interest revenue for December.	825	825

Req. 2

Interest Receivable				
Oct. 31	825			
Nov. 30	825			
Dec. 31	825			
Bal.	2,475			

Req. 3

Jan. 2	Cash	2,475	
	Interest Receivable		2,475
	To collect interest.		

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Unearned revenues are liabilities because *The New York Times* has received cash from subscribers in advance of providing them with newspapers and online access. Receiving the cash in advance creates an obligation (a liability) for *The New York Times*. As *The New York Times* delivers newspapers and online content to subscribers, *The New York Times* earns the revenue, and the dollar amount of the unearned revenue then goes into the revenue account.

a.	Cash Unearned Subscription Revenue Received cash for revenue in advance.	85,000	85,000
b.	Unearned Subscription Revenue Subscription Revenue To record the earning of subscription revenue that was collected in advance.	40,000	40,000
		(5-10 m	in.) S 3-12
a.	Prepaid Rent Cash To record annual payment for rent.	26,800	26,800
b.	Rent Expense Prepaid Rent To record rent expense for the 5 months August 1 through December 31 (\$26,800 × 5 / 12).	11,167	11,167
D	ranaid Pant balance at December 31: \$15.633 ((¢26 800 - ¢	11 167)

Prepaid Rent balance at December 31: \$15,633 (\$26,800 - \$11,167)

a.	Accounts Receivable Service Revenue	22,000	22,000
	Cash Accounts Receivable	9,000	9,000
b.	Cash Unearned Service Revenue	4,500	4,500
	Unearned Service Revenue Service Revenue	3,000	3,000

(15-30 min.) S 3-14

<u>B</u> <i>Thousands</i> \$191,000 136,800
<i>Thousands</i> \$191,000
136,800
29,000
<u>\$ 25,200</u>
y S 8
Thousands
\$31,500
25,200
<u>\$56,700</u>

(continued) S 3-14

Robin Sporting Goods Company Balance Sheet July 31, 2018		
ASSETS	Thousands	
Current:		
Cash	\$ 50,000	
Accounts receivable	34,000	
Inventories	36,000	
Other current assets	5,000	
Total current assets	125,000	
Property and equipment, net	19,400	
Other assets	30,000	
Total assets	<u>\$174,400</u>	
LIABILITIES		
Total current liabilities	\$ 80,000	
Long-term liabilities	<u> 11,700 </u>	
Total liabilities	91,700	
STOCKHOLDERS' EQUITY		
Common stock	26,000	
Retained earnings	56,700	
Total stockholders' equity	82,700	
Total liabilities and stockholders' equity	<u>\$174,400</u>	

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(5-10 min.) S 3-15

CLOSING ENTRIES

		<u>Thous</u>	ands
July 31	Net Revenues Retained Earnings	191,000	191,000
31	Retained Earnings Cost of Goods Sold All Other Expenses	165,800	136,800 29,000

Retained Earnings				
July 31, 2018 Expenses 165,800 July 31, 2017 Bal. 31,50				
July 31, 2018 Revenues 191				
		July 31, 2018 Bal.	56,700	

Retained Earnings' ending balance agrees with the amount reported on the statement of retained earnings and the balance sheet (in S 3-14).

(Dollars in thousands)

Req. 1

Net working capital	=	Total current assets	- 1	Fotal	current liabilities
\$45,000	=	\$125,000	_		\$80,000

Req. 2

Current ratio =
$$\frac{\text{Total current assets}}{\text{Total current liabilities}} = \frac{\$125,000}{\$80,000} = 1.56$$

Req. 3

Debt ratio	_	Total liabilities _ \$91,700 _		_	0.53
	=	Total assets	_ =	\$174,400	=

Net working capital of \$45,000 means current assets exceed current liabilities—a positive sign. The current ratio and debt ratio values are strong.

	Journal	
DATE	ACCOUNT TITLES	DEBIT CREDIT
Dec. 31	Closing Entries Sales Revenue Other Revenue Retained Earnings	513,000 37,000 550,000
31	Retained Earnings Cost of Goods Sold Other Expenses	441,000 256,000 185,000
31	Retained Earnings Dividends	12,000 12,000

Req. 2

Net income was \$109,000 (\$550,000 - \$441,000).

Req. 3

Beginning retained earnings	\$457,000
Plus net income	109,000
Minus dividends	<u>– 12,000</u>
= Ending retained earnings	\$554,000

(5-10 min.) E 3-18A

<u>Millions</u>

a. Revenue \$820

The *revenue principle* says to record revenue when it has been *earned*, regardless of when cash is collected. Therefore, report the amount of revenue earned, regardless of when the company collects cash.

b. Total expense.....\$520

The *expense recognition principle* governs accounting for expenses.

c. Revenue (\$820 - \$20) \$800

Total expense.....\$610

The accrual basis measures revenues as earned and expenses as incurred, while the cash basis measures revenues collected in cash and expenses paid in cash.

d. The *income statement* reports revenues and expenses. The *statement of cash flows* reports cash receipts and cash payments.

	Adjusting Entries		
DATE	ACCOUNT TITLES	DEBIT	CREDIT
a.	Insurance Expense Prepaid Insurance (\$500 + \$2,000 - \$400)	2,100	2,100
b.	Interest Receivable Interest Revenue	2,500	2,500
C.	Unearned Service Revenue (\$1,700 - \$300) Service Revenue	1,400	1,400
d.	Depreciation Expense—Building Accumulated Depreciation—Building	5,600	5,600
e.	Salary Expense (\$19,000 × 2/5) Salary Payable	7,600	7,600
f.	Income Tax Expense (\$21,000 × .35) Income Tax Payable	7,350	7,350
Req. 2	come understated by omission of		

Net income understated by omission of: Interest revenue	\$ 2,500	
Service revenue	1,400	
Total understatement		\$ (3,900)
Net income overstated by omission of:		
Insurance expense	\$ 2,100	
Depreciation expense	5,600	
Salary expense	7,600	
Income tax expense	7,350	
Total overstatement		22,650
Overall effect — net income overstated by		<u>\$18,750</u>

Missing amounts in *italics*.

	1	2	3	4
Beginning Supplies	\$2,100	\$ 1,100	\$ 700	\$ 500
Add: Purchases of supplies				
during the year	<u>1,400</u>	<u>400</u>	1,400	<u>500</u>
Total amount to account for	3,500	1,500	2,100	1,000
Less: Ending Supplies	<u>(1,100</u>)	<u>(800</u>)	(600)	<u>(200</u>)
Supplies Expense	<u>\$2,400</u>	<u>\$ 700</u>	<u>\$1,500</u>	<u>\$800</u>

Journal entries:

Situation 1:	Supplies Cash or Accounts Payable	1,400	1,400
Situation 2:	Supplies Expense Supplies	700	700

	Adjusting Entries		
DATE	ACCOUNT TITLES	DEBIT	CREDIT
a.	Interest Expense Interest Payable	3,100	3,100
b.	Interest Receivable Interest Revenue	4,400	4,400
C.	Unearned Rent Revenue (\$14,200 / 2 × 6 / 12) Rent Revenue	3,550	3,550
d.	Salary Expense (\$5,700 × 4) Salary Payable	22,800	22,800
e.	Supplies Expense Supplies (\$3,100 – \$1,200)	1,900	1,900
f.	Depreciation Expense-Equipment (\$140,000 / 5) Accumulated Depreciation-Equipment	28,000	28,000
	Book value = \$112,000 (\$140,000 − \$28,000)		
	(10-15	min.) E	3-22A
Prepa	id Rent at December 31:		
-	nadjusted amount	\$36,000)
	djusted amount (\$36,000 – \$12,000)	24,000	
Rent E	Expense at December 31:		
c. U	nadjusted amount	\$-0	-

Adjusting Entries

Year Ended December 31, 2018 Thous	sands
Revenues:	
Sales revenue	\$43,200
Expenses:	
Cost of goods sold \$25,100	
Selling, administrative, and	
general expenses 10,500	
Total expenses	35,600
Income before tax	7,600
Income tax expense	2,900
Net income	<u>\$ 4,700</u>
Pearl Industries, Inc.	
Statement of Retained Earnings	
Year Ended December 31, 2018	
	housands
Retained earnings, December 31, 2017	\$ 5,700
Add: Net income	<u>4,700</u>
Subtotal	10,400
Less: Dividends declared	<u>(1,600</u>)
Retained earnings, December 31, 2018	<u>\$ 8,800</u>

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Pearl Industries, Inc. Balance Sheet				
D				
De		•		
ASSETS	Thousa	LIABILITIES		
ASSETS		LIABILITILS		
Cash	\$ 4,400	Accounts payable	\$ 7,900	
Accounts receivable	1,600	Income tax payable	400	
Inventories	2,700	Other liabilities	2,700	
Prepaid expenses	1,800	Total liabilities	11,000	
Prop., plant, equip. \$16,500		STOCKHOLDERS'		
Less: Accum.		EQUITY		
Deprec <u>(2,400</u>)	14,100	Common stock	14,500	
Other assets	9,700	Retained earnings	8,800	
		Total stockholders' equity	23,300	
Total liabilities and				
Total assets	<u>\$34,300</u>	stockholders' equity	<u>\$34,300</u>	

One mechanism for solving this exercise is to prepare the relevant Taccounts, insert the given information, and solve for the unknown amounts, shown in *italics*.

Amounts in millions

Receivables				
Beg. bal. 210				
Sales revenue	20,620	Collections	20,400	
End. bal.	430			

Prepaid Insurance				
Beg. bal.	400			
Payment	470	Insurance expense	540	
End. bal.	330			

	Accrued Liab	pilities Payable	
		Beg. bal.	640
		Other operating	
Payments	4,000	expenses	4,070
		End. bal.	710

(10-20 min.) E 3-25A

	Journal		
DATE	ACCOUNT TITLES	DEBIT	CREDIT
	Closing Entries		
Dec. 31	Service Revenue Other Revenue Retained Earnings	32,200 1,000	33,200
31	Retained Earnings Cost of Services Sold Selling, General, and Administrative Expenses Depreciation Expense Income Tax Expense	26,000	14,800 6,200 4,100 900
31	Retained Earnings Dividends	500	500

Net income for 2018 was \$7,200 (\$33,200 - \$26,000).

	Retained	d Earnings	
		Dec. 31, 2017	2,000
Expenses	26,000		
Dividends	500	Revenues	33,200
		Dec. 31, 2018	8,700

	-	Journal		
DA	TE	ACCOUNT TITLES	DEBIT	CREDIT
		Adjusting Entries		
Dec.	31	Unearned Service Revenue Service Revenue (\$18,300 – \$13,300)	5,000	5,000
	31	Salary Expense (\$4,800 – \$4,200) Salary Payable	600	600
	31	Rent Expense (\$2,100 - \$1,700) Prepaid Rent	400	400
	31	Depreciation Expense-Equipment (\$900 - \$0) Accumulated Depreciation-Equipment	900	900
	31	Income Tax Expense (\$1,800 - \$0) Income Tax Payable	1,800	1,800
		Closing Entries		
	31	Service Revenue Retained Earnings	18,300	18,300
	31	Retained Earnings Salary Expense Rent Expense Depreciation Expense-Equipment Income Tax Expense	9,600	4,800 2,100 900 1,800
	31	Retained Earnings Dividends	1,000	1,000

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Crawford Production Company Balance Sheet December 31, Current Year

ASSETS

Current assets:		
Cash		\$15,000
Prepaid rent (\$1,000 – \$400)		600
Total current assets		15,600
Plant assets:		
Equipment	\$42,000	
Less accumulated depreciation		
(\$6,700 + \$900)	<u>(7,600</u>)	34,400
Total assets		<u>\$50,000</u>

LIABILITIES

Current liabilities:	
Accounts payable	\$ 4,000
Salary payable (\$4,800 – \$4,200)	600
Unearned service revenue (\$8,600 - \$5,000)	3,600
Income tax payable	<u>1,800</u>
Total current liabilities	10,000
Note payable, long-term	<u>11,000</u>
Total liabilities	<u>21,000</u>
STOCKHOLDERS' EQUITY	
Common stock	8,300
Retained earnings (\$13,000 + \$18,300 – \$4,800 – \$2,100 –	
\$900 – \$1,800 – \$1,000)	<u>20,700</u>
Total stockholders' equity	29,000
Total liabilities and stockholders' equity	<u>\$50,000</u>

			Current Year	Prior Year
Net working = capital	Total current assets – current liabilities	\$15,600 - = \$10,000 =	\$5,600	\$5,000
Current ratio =	Total current assets Total current liabilities	= <u>\$15,600</u> \$10,000 =	1.56	1.54

Both net working capital and the current ratio have increased slightly, indicating that the ability to pay current liabilities with current assets has improved a little.

Debt ratio =
$$\frac{\text{Total liabilities}}{\text{Total assets}} = \frac{\$21,000}{\$50,000} = 0.42 \quad 0.59$$

A decrease in the debt ratio indicates an improvement in the ratio.

In summary, the overall ability to pay total liabilities improved.

(30 min.) E 3-28A

(amounts in millions)

a. Current ratio
$$=\frac{\$20}{\$10+\$5}$$
 = 1.33 Debt ratio $=\frac{\$40+\$5}{\$70+\$5}$ = 0.60

The purchase of equipment on account *hurts* both ratios.

b. Current ratio =
$$\frac{\$20 - \$5}{\$10}$$
 = 1.50 Debt ratio = $\frac{\$40 - \$5}{\$70 - \$5}$ = 0.54

The payment of long-term debt *hurts* the current ratio and *improves* the debt ratio.

c. Current ratio = $\frac{\$20 + \$4}{\$10 + \$4}$ = 1.71 Debt ratio = $\frac{\$40 + \$4}{\$70 + \$4}$ = 0.59

Collecting cash in advance hurts both ratios.

d. Current $=\frac{\$20}{\$10+\$3} = 1.54$ Debt ratio $=\frac{\$40+\$3}{\$70} = 0.61$

Accruing an expense hurts both ratios.

e. Current ratio =
$$\frac{\$20 + \$7}{\$10}$$
 = 2.70 Debt ratio = $\frac{\$40}{\$70 + \$7}$ = .52

A cash sale *improves* both ratios.

(5-10 min.) E 3-29B

<u>Millions</u>

a. Revenue \$740

The *revenue principle* says to record revenue when it has been *earned*, regardless of when cash is collected. Therefore, report the amount of revenue earned, regardless of when the company collects cash.

b. Total expense \$560

The *expense recognition principle* governs accounting for expenses.

c. Revenue (\$740 – \$26) \$714

Total expense	\$610
	•

The accrual basis measures revenues as earned and expenses as incurred, while the cash basis measures revenues collected in cash and expenses paid in cash.

d. The *income statement* reports revenues and expenses. The *statement of cash flows* reports cash receipts and cash payments.

	Adjusting Entries		
DATE	ACCOUNT TITLES	DEBIT	CREDIT
a.	Insurance Expense Prepaid Insurance (\$400 + \$2,100 - \$600)	1,900	1,900
b.	Interest Receivable Interest Revenue	2,400	2,400
C.	Unearned Service Revenue (\$1,700 – \$400) Service Revenue	1,300	1,300
d.	Depreciation Expense—Building Accumulated Depreciation—Building	5,300	5,300
e.	Salary Expense (\$21,000 × 2/5) Salary Payable	8,400	8,400
f.	Income Tax Expense (\$30,000 × .35) Income Tax Payable	10,500	10,500
Req. 2	2		
Inte Sei	ncome understated by omission of: erest revenue	<u>00</u>	(3,700)
Ins Dej Sal Inc	ncome overstated by omission of: urance expense	00 00 <u>00</u>	26 100
		_	<u>26,100</u>
Overa	all effect — net income overstated by	<u>\$</u>	<u>22,400</u>

Missing amounts in *italics*.

	1	2	3 4	
Beginning Supplies	\$1,500	\$ 700	\$ 700 \$ 1,00	00
Add: Purchases of supplies				
during the year	<u>1,400</u>	<u>400</u>	<u>1,300</u> 80	<u>)0</u>
Total amount to account for	2,900	1,100	<i>2,000</i> 1,80)0
Less: Ending Supplies	<u>(990</u>)	<u>(900</u>)	<u>(700)</u> <u>(20</u>	<u>)0</u>)
Supplies Expense	<u>\$1,910</u>	<u>\$ 200</u>	<u>\$1,300</u>	<u>)0</u>

Journal entries:

Situation 1:	Supplies Cash or Accounts Payable	1,400	1,400
Situation 2:	Supplies Expense Supplies	200	200

(10-20 min.) E 3-32B

DATE	Adjusting Entries ACCOUNT TITLES	DEBIT	CREDIT
a.		3,800	
	Interest Payable		3,800
b.	Interest Receivable	4,300	
	Interest Revenue	-,	4,300
C.	Unearned Rent Revenue (\$12,600 /2 × 6/12) Rent Revenue	3,150	3,150
			3,150
d.	Salary Expense (\$6,500 × 4)	26,000	
	Salary Payable		26,000
e.	Supplies Expense	2,100	
	Supplies (\$3,300 – \$1,200)		2,100
f.	Depreciation Expense-Equipment (\$60,000 / 5)	12,000	
1.	Accumulated Depreciation-Equipment	12,000	12,000
	Book value = \$48,000 (\$60,000 − \$12,000)		
	(10-	15 min.)	E 3-33B
Prep	baid Rent at December 31:		
a.	Unadjusted amount	\$31,5	00
b.	Adjusted amount (\$31,500 – \$10,500)	21,0	00
	- Evenence of December 24.		
Ren	t Expense at December 31:		
	Unadjusted amount	\$ -	0 -

Req.	1
------	---

Sabrina, Inc. Income Statement Year Ended December 31, 2018		
Thousands		
Revenues:		
Sales revenue	\$42,500	
Expenses:		
Cost of goods sold \$25,600		
Selling, administrative, and		
general expenses <u>10,600</u>	<u>)</u>	
Total expenses	36,200	
Income before tax	6,300	
Income tax expense	2,500	
Net income	<u>\$ 3,800</u>	
Sabrina, Inc. Statement of Retained Earnings		
Year Ended December 31, 2018	Thousands	-
Retained earnings, December 31, 2017	\$ 5,900	-
Add: Net income	3,800	-
Subtotal	9,700	
Less: Dividends declared	<u>(1,200</u>)	
Retained earnings, December 31, 2018	<u>\$ 8,500</u>	

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(continued) E 3-34B

Sabrina, Inc. Balance Sheet December 31, 2018 Thousands				
ASSETS LIABILITIES				
Cash	\$ 4,300	Accounts payable	\$ 7,700	
Accounts receivable	1,300	Income tax payable	600	
Inventories	2,400	Other liabilities	2,200	
Prepaid expenses	1,800	Total liabilities	10,500	
Prop., plant, equip. \$16,700		STOCKHOLDERS'		
Less: Accum.		EQUITY		
deprec <u>(2,300</u>)	14,400	Common stock	14,600	
Other assets	9,400	Retained earnings	8,500	•
		Total stockholders' equity	23,100	
		Total liabilities and		
Total assets	<u>\$33,600</u>	stockholders' equity	<u>\$33,600</u>	

One mechanism for solving this exercise is to prepare the relevant Taccounts, insert the given information, and solve for the unknown amounts, shown in *italics*.

Amounts in millions

Receivables			
Beg. bal.	260		
Sales revenue	21,030	Collections	20,800
End. bal.	490		

Prepaid Insurance			
Beg. bal.	450		
Payment	480	Insurance expense	600
End. bal.	330		

	Accrued Liab	bilities Payable	
		Beg. bal.	640
		Other operating expenses	
Payments	4,800	expenses	4,890
		End. bal.	730

(10-20 min.) E 3-36B

Journal				
DATE	ACCOUNT TITLES	DEBIT	CREDIT	
	Closing Entries			
Dec. 31	Service Revenue	31,700		
	Other Revenue	100		
	Retained Earnings		31,800	
31	Retained Earnings	26,200		
	Cost of Services Sold		14,400	
	Selling, General, and Administrative			
	Expenses		6,400	
	Depreciation Expense		4,600	
	Income Tax Expense		800	
31	Poteinod Earnings	500		
31	Retained Earnings	500	500	
	Dividends		500	

Net income for 2018 was \$5,600 (\$31,800 - \$26,200).

Retained Earnings			
		Dec. 31, 2017	2,500
Expenses	26,200		
Dividends	500	Revenues	31,800
		Dec. 31, 2018	7,600

		Journal		
DA	TE	ACCOUNT TITLES	DEBIT	CREDIT
Dec.	31	Adjusting Entries Unearned Service Revenue Service Revenue (\$20,900 – \$13,500)	7,400	7,400
	31	Salary Expense (\$5,000 – \$4,700) Salary Payable	300	300
	31	Rent Expense (\$1,800 – \$1,100) Prepaid Rent	700	700
	31	Depreciation Expense-Equipment (\$950 - \$0) Accumulated Depreciation-Equipment	950	950
	31	Income Tax Expense (\$1,400 – \$0) Income Tax Payable	1,400	1,400
		Closing Entries		
	31		20,900	20,900
	31	Retained Earnings Salary Expense Rent Expense Depreciation Expense-Equipment Income Tax Expense	9,150	5,000 1,800 950 1,400
	31	Retained Earnings Dividends	1,500	1,500

Current assets:

Lauer Production Company Balance Sheet December 31, Current Year

ASSETS

Cash		\$18,000
Prepaid rent (\$1,000 – \$700)		300
Total current assets		18,300
Plant assets:		
Equipment	\$45,000	
Less accumulated depreciation		
(\$6,100 + \$950)	<u>(7,050</u>)	<u>37,950</u>
Total assets		<u>\$56,250</u>

LIABILITIES

Current liabilities:	
Accounts payable	\$ 4,300
Salary payable (\$5,000 – \$4,700)	300
Unearned service revenue (\$8,900 – \$7,400)	1,500
Income tax payable	<u>1,400</u>
Total current liabilities	7,500
Note payable, long-term	<u>15,000</u>
Total liabilities	<u>22,500</u>
STOCKHOLDERS' EQUITY	
Common stock	8,100
Retained earnings (\$15,400 + \$11,750* - \$1,500)	25,650
Total stockholders' equity	33,750
Total liabilities and stockholders' equity	<u>\$56,250</u>

* Net income = \$11,750 (\$20,900 - \$5,000 - \$1,800 - \$950 - \$1,400)

Req. 2						
					Current	Prior
					Year	Year
Net working = capital	Total current assets – current liabilities		\$18,300 - \$7,500	=	\$10,800	\$10,600
Current ratio =	Total current assets Total current liabilities	- =	\$18,300 \$7,500	=	2.44	2.40

Both net working capital and the current ratio have increased slightly, indicating that the ability to pay current liabilities with current assets has improved a little.

Debt ratio =
$$\frac{\text{Total liabilities}}{\text{Total assets}} = \frac{\$22,500}{\$56,250} = 0.40 \quad 0.50$$

A decrease in the debt ratio indicates an improvement in the ratio.

In summary, the overall ability to pay total liabilities has improved slightly.

(30 min.) E 3-39B

a. Current ratio =
$$\frac{\$20}{\$10 + \$4}$$
 = 1.43 Debt ratio = $\frac{\$30 + \$4}{\$60 + \$4}$ = 0.53

The purchase of equipment on account *hurts* both ratios.

b. Current ratio =
$$\frac{\$20 - \$7}{\$10}$$
 = 1.30 Debt ratio = $\frac{\$30 - \$7}{\$60 - \$7}$ = 0.43

The payment of long-term debt *hurts* the current ratio and *improves* the debt ratio.

c. Current ratio = $\frac{\$20 + \$5}{\$10 + \$5}$ = 1.67 Debt ratio = $\frac{\$30 + \$5}{\$60 + \$5}$ = 0.54

Collecting cash in advance *hurts* both ratios.

d. Current ratio = $\frac{\$20}{\$10 + \$6}$ = 1.25 Debt ratio = $\frac{\$30 + \$6}{\$60}$ = 0.60

Accruing an expense hurts both ratios.

e. Current ratio = $\frac{\$20 + \$8}{\$10}$ = 2.8 Debt ratio = $\frac{\$30}{\$60 + \$8}$ = 0.44

A cash sale *improves* both ratios.

(3 hours) E 3-40

Reqs. 2, 5, and 7

Cash							
Мау	2	12,000	Мау	2	500		
	9	600		3	1,800		
	21	2,400		12	750		
	28	3,100		26	900		
				31	1,200		
Bal.		12,950					

Accounts Receivable						
May 18	3,100	May	28	3,100		
Bal.	0					
Adj. (a)	2,000					
Bal.	2,000					

Supplies						
May 5	900	Adj. (c)	600			
Bal.	300					

Equipment					
May 3	1,800				
Bal.	1,800				

Accumulated Depreciation – Equipment				
	Adj .(d1)	3		

oment			Furniture	
Adj.(d1)	30	May 4	6,000	
Bal.	30	Bal.	6,000	

Accumulated D Furnit	-	on –		Ac	counts	s Paya	ble	
	Adj.(d2)	100	Мау	26	900	Мау	4	6,000
	Bal.	100					5	900
						Bal.		6,000

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Reqs. 2, 5, and 7

Salary Payable			Unea	rned Ser	vice R	ever	nue
	Adj. (e	e) 900	Adj. (b)	800	Мау	21	2,400
	Bal.	900			Bal.		1,600
C	ommon Stoc	k	F	Retained	Earnir	ngs	
	Мау	2 12,000	Clo.	2,880	Clo.		6,500
	Bal.	12,000	Clo.	1,200			
					Bal.		2,420
	Dividends			Service I	Reveni	Je	
May 31	1,200 Clo.	1,200			Мау	9	600
					1	8	3,100
					Bal.		3,700
					Adj. (a	a)	2,000
					Adj. (k)	800
			Clo.	6,500	Bal.		6,500
R	lent Expense	9		Utilities	Expen	se	
May 2	500 Clo.	500	May 12	750	Clo.		750
Sa	Depreciation Expense – Salary Expense Equipment					-	
Adj. (e)	900 Clo.	900	Adj.(d1)	30	Clo.		30
Depre	ciation Expe Furniture	nse –		Supplies	Exper	ise	
Adj.(d2)	100 Clo.	100	Adj. (c)	600	Clo.		600

May 2 through 18 entries are repeated from Solution to E 2-37.

		Journal		
	ATE	ACCOUNT TITLES	DEBIT	CREDIT
Мау	2	Cash Common Stock	12,000	12,000
	2	Rent Expense Cash	500	500
	3	Equipment Cash	1,800	1,800
	4	Furniture Accounts Payable	6,000	6,000
	5	Supplies Accounts Payable	900	900
	9	Cash Service Revenue	600	600
	12	Utilities Expense Cash	750	750
	18	Accounts Receivable Service Revenue	3,100	3,100
	21	Cash Unearned Service Revenue	2,400	2,400
	22	No entry; no transaction yet		
	26	Accounts Payable Cash	900	900
	28	Cash Accounts Receivable	3,100	3,100
	31	Dividends Cash	1,200	1,200
3-42	Financial	Accounting 12/e Solutions Manual Copyright ©	2019 Pearson E	ducation Inc.

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Reqs. 3 and 4

Olivia Matthews, Certified Public Accountant, P.C. Trial Balance Worksheet May 31, 2018

		BALANCE	ADJUST	MENTS		RIAL BALANCE
ACCOUNT TITLE	DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT
Cash	12,950				12,950	
Accounts receivable	0		(a) 2,000		2,000	
Supplies	900			(c) 600	300	
Equipment	1,800				1,800	
Accumulated depr. – equip.		—		(d1) 30		30
Furniture	6,000				6,000	
Accumulated depr. – furn.		—		(d2) 100		100
Accounts payable		6,000				6,000
Salary payable		—		(e) 900		900
Unearned service revenue		2,400	(b) 800			1,600
Common stock		12,000				12,000
Retained earnings		—				_
Dividends	1,200				1,200	
Service revenue		3,700		(a)2,000		6,500
				(b) 800		
Rent expense	500				500	
Utilities expense	750				750	
Salary expense			(e) 900		900	
Depreciation expense – equip.			(d1) 30		30	
Depreciation expense – furn.			(d2) 100		100	
Supplies expense			(c) 600		600	
	<u>24,100</u>	<u>24,100</u>	4,430	4,430	<u>27,130</u>	<u>27,130</u>

	Journal						
DATE		ACCOUNT TITLES	DEBIT	CREDIT			
(a) May	31	Adjusting Entries Accounts Receivable Service Revenue	2,000	2,000			
(b)	31	Unearned Service Revenue Service Revenue	800	800			
(c)	31	Supplies Expense (\$900 - \$300) Supplies	600	600			
(d1)	31	Depreciation Expense – Equipment Accumulated Depreciation – Equip	30	30			
(d2)	31	Depreciation Expense – Furniture Accumulated Depreciation – Furn	100	100			
(e)	31	Salary Expense Salary Payable	900	900			

Olivia Matthews, Certified Public Accou Income Statement Month Ended May 31, 2018	untant, P	P.C.	
Revenues:			
Service revenue		\$6,50	00
Expenses:			
Salary expense	\$900		
Utilities expense	750		
Supplies expense	600		
Rent expense	500		
Depreciation expense – furniture	100		
Depreciation expense – equipment	<u> </u>		
Total expenses		2,88	<u>30</u>
Net income		<u>\$3,62</u>	<u>20</u>
Olivia Matthews, Certified Public Accou Statement of Retained Earning Month Ended May 31, 2018	•	.C.	
Retained earnings, May 1, 2018		\$ 0	
Add: Net income		3,620	•
Subtotal		3,620	
Less: Dividends declared		<u>(1,200</u>)	
Retained earnings, May 31, 2018	¢	2,420	

Olivia Matthews, Certified Public Accountant, P.C. Balance Sheet May 31, 2018					
ASSETS LIABILITIES					
Current assets:			Current liabilities:		
Cash		\$12,950	Accounts payable	\$ 6,000	
Accounts receivable		2,000	Salary payable	900	
Supplies		300	Unearned service		
Total current assets		15,250	revenue	<u>1,600</u>	
Plant assets:			Total current liabilities	8,500	
Equipment	\$1,800				
Less: accum.			STOCKHOLDERS' EQUIT	ſY	
depr.	(30)	1,770	Common stock	12,000	
			Retained earnings	2,420 🗲	
Furniture	\$6,000		Total stockholders'	11 100	
Less: accum.			equity	14,420	
depr.	(100)	<u>5,900</u>	Total liabilities and		
Total assets		<u>\$22,920</u>	stockholders' equity	<u>\$22,920</u>	

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	Journal					
DA	DATE ACCOUNT TITLES		DEBIT	CREDIT		
Мау	31	Closing Entries Service Revenue Retained Earnings	6,500	6,500		
	31	Retained Earnings Salary Expense Utilities Expense Supplies Expense Rent Expense Depreciation Expense – Furniture Depreciation Expense – Equipment	2,880	900 750 600 500 100 30		
	31	Retained Earnings Dividends	1,200	1,200		

Net working = Total current assets -
$$$15,250 -$$

capital current liabilities = $$8,500 = $6,750$
Current ratio = $\frac{\text{Total current assets}}{\text{Total current liabilities}} = \frac{$15,250}{$8,500} = 1.79$
Debt ratio = $\frac{\text{Total liabilities}}{\text{Total assets}} = \frac{$8,500}{$22,920} = 0.37$

The company has an excess of current assets over its current liabilities. The current and debt ratios indicate an excellent financial position. The business has \$1.79 in current assets for every \$1.00 of current liabilities. The debt ratio of 37% is not too high, which suggests that, overall, the business should be able to pay its debts.

Q3-41	b			
Q3-42	b			
Q3-43	d			
Q3-44	С			
Q3-45	а			
Q3-46	С			
Q3-47	а			
Q3-48	а			
Q3-49	а	(\$2,700 × 9/12 = \$2,025	5)	
Q3-50	а	(\$5,500 + \$19,000 - \$1	6,000 = revenue of	f \$8,500)
Q3-51	С			
Q3-52	d			
Q3-53	d			
Q3-54	а			
Q3-55	а	Current ratio = \$31,2	200 / \$26,000 = 1.	200
		\$2	6,000 + \$110,000	
			1,200 + \$185,000	= .629
00 50				
Q3-56	\$5,550	(\$5,500 - \$510 - \$90 +	\$850 - \$200)	
Q3-57	а	Sal	ary Payable	
			Beg. bal.	26,000
		Payment 141,000	Salary exp.	125,000
			End. bal.	10,000
			I	

Quiz

(20-30 min.) P 3-58A

	Berkley Consulting Amount of Revenue (Expense) for July							
Dat	te		Cash Basis	Accrual Basis				
July	1	Expense	\$(3,900)	\$ 0				
	4	Expense	(3,000)	0				
	5	Revenue	1,800	1,800				
	8	Expense	(300)	(300)				
	11	Revenue	0	3,100				
	19		0	0				
:	24	Revenue	3,100	0				
	26	Expense	(1,600)	0				
:	29	Expense	(1,100)	(1,100)				
;	31	Expense	0	\$3,900 ÷ 3 = (1,300)				
	31	Revenue	0	400				
;	31	Expense	0	(408)				
Req. 2	2	Income (loss) before tax	<u>\$ (5,000</u>)	<u>\$2,192</u>				

The accrual-basis measure of net income is preferable because it accounts for revenues and expenses when they occur, not when they are received or paid in cash. For example, on July 11, the company earned \$3,100 of revenue and increased its wealth as a result. The accrual basis records this revenue, but the cash basis ignores it. On July 24, the business collected the receivable that was created by the revenue earned on account at July 11. The accrual basis records no revenue on July 24 because the company's increase in wealth occurred back on July 11. The cash basis waits until cash is received, on July 24, to record the revenue. This is too late.

		Journal		
DA	DATE ACCOUNT TITLES		DEBIT	CREDIT
Dec.	31	a. Insurance Expense Prepaid Insurance To record insurance expense.	5,200*	5,200
	31	 b. Salary Expense (\$6,100 × 3/5) Salary Payable To accrue salary expense. 	3,660	3,660
	31	c. Interest Receivable Interest Revenue To accrue interest revenue.	700	700
	31	d. Supplies Expense Supplies To record supplies expense.	7,000**	7,000
	31	 e. Unearned Service Revenue (\$10,500 × 60%) Service Revenue To record revenue collected in advance that is now earned. 	6,300	6,300
	31	f. Depreciation Expense – Office Furniture Depreciation Expense – Equipment Accumulated Depreciation – Office Furniture Accumulated Depreciation – Equipment	3,800 5,400	3,800 5,400
		To record depreciation expense.		

* \$2,900 + \$4,000 - \$1,700 = \$5,200

** \$3,000 + \$6,200 - \$2,200 = \$7,000

Req.	1
------	---

		Trial Bala	icess, Inc. Ince Workshe Iber 31, 2020	et		
	TRIAL E	BALANCE		TMENTS	ADJUSTED TR	RIAL BALANCE
ACCOUNT TITLE	DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT
Cash	9,400				9,400	
Accounts receivable	2,200		(a) 2,980		5,180	
Prepaid rent	1,200			(b) 400*	800	
Supplies	2,600			(c) 2,160	440	
Furniture	48,000				48,000	
Accumulated depreciation	,	3,900		(d) 800**	,	4,700
Accounts payable		3,800				3,800
Salary payable				(e) 9,000***		9,000
Common stock		6,000				6,000
Retained earnings		32,210				32,210
Dividends	3,800	,			3,800	,
Service revenue	,	25,100		(a) 2,980	,	28,080
Salary expense	3,300	-,	(e) 9,000***		12,300	-,
Rent expense	- ,		(b) 400*		400	
Utilities expense	510				510	
Depreciation expense			(d) 800**		800	
Supplies expense			(c) <u>2,160</u>		2,160	
•••••	71.010	71.010	15.340	15.340	83,790	83,790

* \$1,200 ÷ 3 = \$400

** \$48,000 ÷ 5 = \$9,600 ÷ 12 = \$800 *** \$15,000 × 3/5 = \$9,000

Revenues:		
Service revenue		\$28,080
Expenses:		
Salary expense	\$12,300	
Supplies expense	2,160	
Depreciation expense – Furniture	800	
Utilities expense	510	
Rent expense	400	
Total expenses		16,170
Net income		<u>\$11,910</u>
Princess, Inc. Statement of Retained E Month Ended December	•	
Retained earnings, December 1, 2020		\$32,210
Add: Net income		<u>11,910</u>
Subtotal		44,120
Less: Dividends declared		<u>(3,800</u>)
Retained earnings, December 31, 202	•	¢ 40 000

Req. 2 (continued)

Princess, Inc. Balance Sheet December 31, 2020						
ASSETS		LIABILITIES				
Current assets:		Current liabilities:				
Cash	\$ 9,400	Accounts payable	\$ 3,800			
Accounts receivable	5,180	Salary payable	9,000			
Prepaid rent	800	Total current liabilities	12,800			
Supplies	440					
Total current assets	15,820					
Furniture \$48,000		STOCKHOLDERS' EQUITY				
Less: Accum.		Common stock	6,000			
deprec. <u>(4,700)</u>	43,300	Retained earnings	40,320	•		
		Total stockholders' equity	46,320			
		Total liabilities and				
Total assets	<u>\$59,120</u>	stockholders' equity	<u>\$59,120</u>			

Ney. I		Journal		
DAT	ГЕ	ACCOUNT TITLES AND EXPLANATION	DEBIT	CREDIT
June	30	Accounts Receivable (\$6,880 - \$6,100) Rental Revenue To accrue rental revenue.	780	780
	30	Interest Receivable (\$600 - \$0) Interest Revenue (\$1,650 - \$1,050) To accrue interest revenue.	600	600
	30	Supplies Expense (\$1,300 - \$0) Supplies (\$1,500 - \$200) To record supplies expense.	1,300	1,300
	30	Insurance Expense (\$1,300 - \$0) Prepaid Insurance (\$3,100 - \$1,800) To record insurance expense.	1,300	1,300
	30	Depreciation Expense-Building (\$1,400 - \$0) Accumulated Depreciation-Building (\$9,200 - \$7,800) To record depreciation expense.	1,400	1,400
	30	Wage Expense (\$2,570 - \$1,700) Wages Payable (\$870 - \$0) To accrue wage expense.	870	870
	30	Unearned Rental Revenue (\$1,900 - \$1,400) Rental Revenue (\$20,630 - \$19,350 - \$780) To record revenue that was collected in advance earned.	500 that is	500 now

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Total assets	=	\$81,080	(\$8,400 + \$6,880 + \$600 + \$4,400 + \$200 + \$1,800 + \$68,000 - \$9,200)
Total liabilities	=	\$9,270	(\$7,000 + \$870 + \$1,400)
Net income	=	\$14,610	(\$20,630 + \$1,650 - \$1,400 - \$1,300 - \$700 - \$2,570 - \$400 - \$1,300)
Total equity	=	\$71,810	(\$81,080 – \$9,270) <i>or</i> (\$16,000 + \$44,500 + \$14,610 – \$3,300)

ACQ. I

Revenues:		
Service revenue		\$105,000
Expenses:		
Salary expense	\$40,400	
Rent expense	10,100	
Insurance expense	4,300	
Interest expense	2,700	
Supplies expense	2,400	
Depreciation expense, equipment	1,500	61,400
Income before tax		43,600
Income tax expense		7,100
Net income		<u>\$ 36,500</u>
Sunray Corporation Statement of Retained Ea Year Ended March 31,	arnings	
Retained earnings, March 31, 2017		\$ 2,000
Add: Net income		<u>36,500</u>
Subtotal		38,500
Less: Dividends declared		(12,000)
Retained earnings, March 31, 2018		<u>\$26,500</u>

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Req. 1 (continued)

Sunray Corporation Balance Sheet March 31, 2018							
ASS	ETS		LIABILITIES				
Cash		\$ 13,000	Accounts payable	\$ 9,000			
Accounts receiva	ble	19,300	Interest payable	500			
Supplies		2,900	Unearned service revenue	1,100			
Prepaid rent		1,600	Income tax payable	2,100			
			Note payable	18,600			
Equipment	\$37,200		Total liabilities	31,300			
Less: Accum.							
deprec. <u>(4,200</u>) 33,000 STOCKHOLDERS' EQ				ITY			
			Common stock	12,000			
			Retained earnings	<u> 26,500</u>			
			Total stockholders' equity	38,500			
	Total liabilities and						
Total assets		<u>\$69,800</u>	stockholders' equity	<u>\$69,800</u>			

Req. 2

Debt ratio:
$$\frac{\$31,300}{\$69,800} = 0.45$$

Sunray is in compliance with its debt agreement, which requires the company to maintain a debt ratio no higher than 0.50.

Journal					
DATE		ACCOUNT TITLES	DEBIT	CREDIT	
Jan. 31		<i>Closing Entries</i> Service Revenue Retained Earnings	96,000	96,000	
	31	Retained Earnings Advertising Expense Depreciation Expense-Equipment Interest Expense Salary Expense Supplies Expense	44,100	10,800 2,100 400 26,300 4,500	
	31	Retained Earnings Dividends	15,000	15,000	

Req. 2

Retained Earnings					
Jan. 31, 2018 Expenses 44,100 Jan. 31, 2017 Bal. 13					
Jan. 31, 2018 Dividends	15,000	Jan. 31, 2018 Revenues	96,000		
		Jan. 31, 2018 Bal.	50,500		

Net income = \$51,900 (\$96,000 - \$44,100)

Req. 3

Retained Earnings increased during the year because net income of \$51,900 exceeded dividends of \$15,000.

Valley Services, Inc. Balance Sheet January 31, 2018		
ASSETS Current assets:		
Cash		\$ 26,000
Accounts receivable		5,000
Prepaid expenses		6,600
Supplies		2,400
Total current assets		40,000
Plant assets:		
Equipment	\$43,000	
Less: Accumulated depreciation	<u>(7,000</u>)	36,000
Other assets, long-term		<u> 14,400 </u>
Total assets		<u>\$90,400</u>
LIABILITIES		
Current liabilities:		
Current portion of note payable		\$ 1,000
Accounts payable		14,000
Salary payable		2,300
Unearned service revenue		2,700
Total current liabilities		20,000
Note payable, long-term		<u> 15,400 </u>
Total liabilities		35,400
STOCKHOLDERS' EQUI	ΤY	
Common stock		4,500
Retained earnings		<u>50,500</u> *
Total stockholders' equity		<u> </u>
Total liabilities and stockholders' equity		<u>\$90,400</u>
*See next page		

Req. 1 (continued)

*Retained earnings = \$90,400 - \$35,400 - \$4,500 = \$50,500				
OR				
*Retained earnings, January 31, 2017	\$13,600			
Add: Net income (\$96,000 - \$10,800 - \$2,100 -				
\$400 - \$26,300 - \$4,500)	<u>51,900</u>			
Subtotal	65,500			
Less: Dividends declared	<u>(15,000</u>)			
Retained earnings, January 31, 2018	<u>\$50,500</u>			

Req. 2

			<u>2018</u>	<u>2017</u>
Net working capital	Total current assets – = current liabilities	\$40,000- \$20,000 =	\$20,000	\$19,500
Current ratio	= Total current assets Total current liabilities	$\frac{1}{100} = \frac{\$40,000}{\$20,000}$	- = 2.00	1.80

The increase in both working capital and the current ratio indicate that the ability to pay current liabilities with current assets improved during 2018.

					<u>2018</u>	<u>2017</u>
Debt ratio	_ Total liabilities		\$35,400	_	0.39	0.15
Dept ratio	= Total assets	= \$ 90,40	\$90,400	-	0.39	0.15

The overall debt position deteriorated during 2018. However, Valley Service's overall debt position is strong because a debt ratio of .39 is not troublesome.

Req. 1 (All amounts in millions)							
Current ratio = $\frac{\text{Total current assets}}{\text{Total current liabilities}} = \frac{\$15.2}{\$9.4} = 1.62$							
De		liabilities I assets	\$15.3 = <u>\$9.4 + \$</u> \$31.1	<u>5.9</u> = 0.49			
Req.	2						
	Current Ratio		Debt Ratio				
a.	<u>\$15.2 + \$2.6</u> \$9.4	= 1.89	<u>\$15.3</u> \$31.1 + \$2.6	= 0.45			
b.	<u>\$15.2 + \$5.0</u> \$9.4	= 2.15	<u>\$15.3 + \$5.0</u> \$31.1 + \$5.0	= 0.56			
C.	<u>\$15.2 - (\$9.4 × 1/2)</u> (\$9.4 × 1/2)	= 2.23	<u>\$15.3 - (\$9.4 × 1</u> \$31.1 - (\$9.4 × 1	$\frac{1/2}{1/2}$ = 0.40			
d.	<u>\$15.2 - \$1</u> \$9.4	= 1.51	<u>\$15.3</u> \$31.1 – \$1	- = 0.51			
e.	<u>\$15.2</u> \$9.4 + \$0.7	= 1.50	<u>\$15.3 + \$0.7</u> \$31.1	= 0.51			
f.	<u>\$15.2 - \$1.7</u> \$9.4	= 1.44	<u>\$15.3 + \$2.7</u> \$31.1 + \$4.4 - \$	<u>.</u> = 0.53			
g.	<u>\$15.2</u> \$9.4	= 1.62	<u>\$15.3</u> \$31.1- \$0.9	= 0.51			

- a. Revenues usually <u>increase</u> the current ratio.
- b. Revenues usually <u>decrease</u> the debt ratio.
- c. Expenses usually <u>decrease</u> the current ratio. *Note*: Depreciation is an exception to this rule.
- d. Expenses usually increase the debt ratio.
- e. If a company's current ratio is greater than 1.0, as it is for Bellwood, paying off a current liability will always <u>increase</u> the current ratio.
- f. Borrowing money on long-term debt will always <u>increase</u> both the current ratio and the debt ratio.

			venue (Ex	pense) for May	
Date		Cash Ba	nsis	Accrual Bas	is
Мау	1	Expense	\$ (2,250)	Expense	\$ 0
	4	Expense	(4,000)	Expense	0
	5	Revenue	1,000	Revenue	1,000
	8	Expense	(300)	Expense	(300)
	11	Revenue	0	Revenue	3,500
	19	Expense	0	Expense	0
	24	Revenue	3,500	Revenue	0
	26	Expense	(2,000)	Expense	0
	29	Expense	(1,000)	Expense	(1,000)
	31	Expense	0	Expense (\$2,250 / 3)	(750)
	31	Revenue	0	Revenue	1,000
	31	Expense	<u> </u>	Expense	(108)
Req. 2		Income (loss) before tax	<u>\$(5,050</u>)	Income before tax	<u>\$3,342</u>

Westchester Consulting

Req. 3

The accrual-basis measure of net income is preferable because it accounts for revenues and expenses when they occur, not when they are received or paid in cash. For example, on May 11, the company earned \$3,500 of revenue and increased its wealth as a result. The accrual basis records this revenue, but the cash basis ignores it. On May 24, the business collected the receivable that was created by the revenue earned on account at May 11. The accrual basis records no revenue on May 24 because the company's increase in wealth occurred back on May 11. The cash basis waits until cash is received, on May 24, to record the revenue. This is too late.

(10-20 min.) P 3-67B

			Journal		
DA	TE	A	ACCOUNT TITLES AND EXPLANATION	DEBIT	CREDIT
Dec.	31	a.	Insurance Expense Prepaid Insurance To record insurance expense	5,200*	5,200
	31	b.	Salary Expense (\$5,900 × 1/5) Salary Payable To accrue salary expense.	1,180	1,180
	31	C.	Interest Receivable Interest Revenue To accrue interest revenue.	400	400
	31	d.	Supplies Expense Supplies To record supplies expense.	7,000**	7,000
	31		Unearned Service Revenue (\$10,600 × 70%) Service Revenue To record unearned service revenue th med.	7,420 at has bee	7,420 n
	31		Depreciation Expense – Office Furniture Depreciation Expense – Equipment Accumulated Depreciation – Office Furniture Accumulated Depreciation – Equipment To record depreciation expense.	3,400 6,100	3,400 6,100

* \$2,100 + \$3,300 - \$200 = \$5,200

** \$2,700 + \$6,400 - \$2,100 = \$7,000

ADJUSTED

Req. 1

Royal, Inc. Trial Balance Worksheet December 31, 2020

		_	_	_	ADJU.	
	TRIAL B		ADJUS	TMENTS	TRIAL B	ALANCE
ACCOUNT TITLE	DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT
Cash	9,400				9,400	
Accounts receivable	1,900		(a) 3,850		5,750	
Prepaid rent	3,300			(b) 1,100*	2,200	
Supplies	2,600			(c) 2,120	480	
Furniture	72,000				72,000	
Accumulated depreciation		3,100		(d) 1,200**		4,300
Accounts payable		3,400				3,400
Salary payable				(e) 8,400***		8,400
Common stock		12,000				12,000
Retained earnings		58,620				58,620
Dividends	4,200				4,200	
Service revenue		19,300		(a) 3,850		23,150
Salary expense	2,500		(e) 8,400***		10,900	
Rent expense			(b) 1,100*		1,100	
Utilities expense	520				520	
Depreciation expense			(d) 1,200**		1,200	
Supplies expense			(c) <u>2,120</u>		2,120	
	<u>96,420</u>	<u>96,420</u>	<u>16,670</u>	<u>16,670</u>	<u>109,870</u>	<u>109,870</u>

* \$3,300 ÷ 3 = \$1,100

** \$72,000 ÷ 5 = \$14,400 ÷ 12 = \$1,200

*** \$14,000 × 3/5 = \$8,400

Req. 2 (continued)

Royal, Inc. Income Statemer Month Ended December			_
Revenues:			
Service revenue		\$23,150	
Expenses:			
Salary expense	\$10,900		
Supplies expense	2,120		
Depreciation expensefurniture	1,200		
Rent expense	1,100		
Utilities expense	<u>520</u>		
Total expenses		<u>15,840</u>	
Net income		<u>\$ 7,310</u>	
Royal, Inc. Statement of Retained E Month Ended December	•		_
Retained earnings, December 1, 2020)	\$58,620	
Add: Net income		7,310	<
Subtotal		65,930	
Less: Dividends declared		<u>(4,200</u>)	
Retained earnings, December 31, 202	20	<u>\$61,730</u>	

Req. 2 (continued)

	Baland	al, Inc. ce Sheet er 31, 2020		
ASSETS		LIABILITIES		
Current assets:	Current liabilities:			
Cash	\$ 9,400	Accounts payable	\$ 3,400	
Accounts receivable	5,750	Salary payable	8,400	
Prepaid rent	2,200	Total current liabilities	11,800	
Supplies	480			
Total current assets	17,830			
Furniture \$72,000	STOCKHOLDERS' EQUITY			
Less: Accum.		Common stock	12,000	
deprec. <u>(4,300</u>)	67,700	Retained earnings	<u>61,730</u> ←	
		Total stockholders' equity	73,730	
		Total liabilities and		
Total assets	<u>\$85,530</u>	stockholders' equity	<u>\$85,530</u>	

	Journal		
DATE	ACCOUNT TITLES AND EXPLANATION	DEBIT C	REDIT
June 30	Accounts Receivable (\$6,850 – \$6,100) Rental Revenue To accrue rental revenue.	750	750
30	Interest Receivable (\$1,000 - \$0) Interest Revenue (\$2,100 - \$1,100) To accrue interest revenue.	1,000	1,000
30	Supplies Expense (\$1,600 - \$0) Supplies (\$1,800 - \$200) To record supplies expense.	1,600	1,600
30	Insurance Expense (\$1,000 - \$0) Prepaid Insurance (\$3,000 - \$2,000) To record insurance expense.	1,000	1,000
30	 Depreciation Expense-Building (\$1,400 - \$0) Accumulated Depreciation-Building (\$8,700 - \$7,300) To record depreciation expense. 	1,400	1,400
30	Wage Expense (\$1,980 - \$1,200) Wages Payable (\$780 - \$0) To accrue salary expense.	780	780
30	Unearned Rental Revenue (\$1,600 - \$1,300) Rental Revenue* To record unearned rental revenue that has been earned.	300	300

* (\$21,650 - \$20,600 - \$750)

Req. 2	2
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Total assets	=	\$81,150	(\$8,400 + \$6,850 + \$1,000 + \$4,800 + \$200 + \$2,000 + \$66,600 - \$8,700)
Total liabilities	=	\$9,080	(\$7,000 + \$780 + \$1,300)
Net income	=	\$17,470	(\$21,650 + \$2,100 - \$1,400 - \$1,600 - \$100 - \$1,980 - \$200 - \$1,000)
Total equity	=	\$72,070	(\$81,150 – \$9,080) <i>or</i> (\$16,000 + \$41,600 + \$17,470 – \$3,000)

Revenues:		
Service revenue		\$106,600
Expenses:		
Salary expense	\$40,200	
Rent expense	11,100	
Insurance expense	3,500	
Interest expense	3,000	
Supplies expense	2,000	
Depreciation expense, equipment	1,200	<u>61,000</u>
Income before tax		45,600
Income tax expense		7,200
Net income		<u>\$38,400</u>
Nelson Corporatio Statement of Retained E Year Ended July 31, 2	arnings	
Retained earnings, July 31, 2017		\$ 4,000
Add: Net income		<u>38,400</u>
Subtotal		42,400
Less: Dividends declared		<u>(12,000</u>)
Retained earnings, July 31, 2018		<u>\$30,400</u>

Req. 1 (continued)

Nelson Corporation Balance Sheet							
ASSETS	July	31, 2018 LIABILITIES					
Cash	\$17,000	Accounts payable	\$ 9,000				
Accounts receivable	19,200	Unearned service	\$ 0,000				
Supplies	2,100	revenue	700				
Prepaid rent	1,600	Interest payable	800				
	.,	Income tax payable	2,200				
Equipment \$36,800		Note payable	18,600				
Less: Accum.		Total liabilities	31,300				
deprec. <u>(5,000</u>)	31,800		- ,				
		STOCKHOLDERS' EQ	UITY				
		Common stock	10,000				
		Retained earnings	30,400 ◄				
		Total stockholders' equity 40,400					
		Total liabilities and					
Total assets	<u>\$71,700</u>	stockholders' equity	<u>\$71,700</u>				

Req. 2

Debt ratio:
$$\frac{\$31,300}{\$71,700} = 0.44$$

Nelson Corporation's debt ratio of 0.44 is in compliance with the lenders' debt restriction.

	Journal					
DA	TE	ACCOUNT TITLES	DEBIT	CREDIT		
Jan.	31	Closing Entries Service Revenue Retained Earnings	95,500	95,500		
	31	Retained Earnings Salary Expense Supplies Expense Advertising Expense Depreciation Expense – Equipment Interest Expense	46,300	27,800 5,000 11,200 2,100 200		
	31	Retained Earnings Dividends	13,000	13,000		

Req. 2

Retained Earnings					
Jan. 31, 2018 Expenses 46,300 Jan. 31, 2017 Bal. 13,700					
Jan. 31, 2018 Dividends	13,000	Jan. 31, 2018 Revenues	95,500		
Jan. 31, 2018 Bal. 49,900					

Net income = \$49,200 (\$95,500 - \$46,300)

Req. 3

Retained Earnings increased during the year because net income of \$49,200 exceeded dividends of \$13,000.

Meadowbrook Service, Inc.	
Balance Sheet	
January 31, 2018	
ASSETS	
Current assets:	
Cash	\$22,000
Accounts receivable	1,000
Prepaid expenses	5,000
Supplies	6,400
Total current assets	34,400
Plant assets:	
Equipment\$43,000	
Less: accumulated depreciation (7,100)	35,900
Other assets, long-term	<u>13,900</u>
Total assets	<u>\$84,200</u>
LIABILITIES	
Current liabilities:	
Accounts payable	\$10,000
Current portion of note payable	2,200
Salary payable	2,000
Unearned service revenue	3,000
Total current liabilities	17,200
Note payable, long-term	<u>15,600</u>
Total liabilities	32,800
STOCKHOLDERS' EQUITY	
Common stock	1,500
Retained earnings	<u>49,900</u> *
Total stockholders' equity	51,400
Total liabilities and stockholders' equity	<u>\$84,200</u>
See next page	

Req. 1 (continued)

Req. 2				<u>2018</u>	<u>2017</u>
Net working capital	=	Total current assets – current liabilities	\$34,400 – \$17,200 =	\$17,200	\$16,700
Current ratio	=	Total current assets Total current liabilities	= <u>\$34,400</u> \$17,200	= 2.00	1.75

The increase in both working capital and the current ratio indicate that the ability to pay current liabilities with current assets improved during 2018.

Debt ratio =
$$\frac{\text{Total liabilities}}{\text{Total assets}}$$
 = $\frac{\$32,800}{\$84,200}$ = 0.39 0.25

Meadowbrook Service's overall debt position deteriorated from 2017 to 2018; however, the company's overall debt position is strong because a debt ratio of .39 is not troublesome.

(All amounts in millions)

С	urrent ratio = —	<u>Total c</u> Total cu	<u>urrent a</u> rrent lia		-= 1.66	5
C)ebt ratio = —	Total liat Total as		$= \frac{\$15.1}{\$9.6 + \$5.5}$ \$32.1	= 0.4	7
Req.	2					
	Current Rati	0		Debt Ratio		
а	. <u>\$15.9 + \$2.8</u> \$9.6	<u> </u>	1.95	<u>\$15.1</u> \$32.1 + \$2.8	=	0.43
b	. <u>\$15.9 + \$7.0</u> \$9.6) =	2.39	<u>\$15.1 + \$7.0</u> \$32.1 + \$7.0	=	0.57
С	. <u>\$15.9 - (\$9.6 × 1</u> (\$9.6 × 1/2)	<u>/2)</u> =	2.31	<u>\$15.1 - (\$9.6 × 1/2</u> \$32.1 - (\$9.6 × 1/2	<u>)</u> =	0.38
d	. <u>\$15.9 – \$.6</u> \$9.6	=	1.59	<u>\$15.1</u> \$32.1 - \$.6	=	0.48
е	. <u>\$15.9</u> \$9.6 + \$0.8	- =	1.53	<u>\$15.1 + \$0.8</u> \$32.1	=	0.50
f.	<u>\$15.9 - \$1.9</u> \$9.6	2 =	1.46	<u>\$15.1 + \$2.7</u> \$32.1 + \$4.6 - \$1.9	=	0.51
g	. <u>\$15.9</u> \$9.6	=	1.66	<u>\$15.1</u> \$32.1 – \$0.4	=	0.48

Req. 1

- a. Revenues usually <u>increase</u> the current ratio.
- b. Revenues usually <u>decrease</u> the debt ratio.
- c. Expenses usually <u>decrease</u> the current ratio. *Note*: Depreciation is an exception to this rule.
- d. Expenses usually increase the debt ratio.
- e. If a company's current ratio is greater than 1.0, as for McClain, paying off a current liability will always <u>increase</u> the current ratio.
- f. Borrowing money on long-term debt will always <u>increase</u> both the current ratio and the debt ratio.

(20-25 min.) E 3-74

(Dollar amounts in thousands)

December 31, 2018 Current assets = \$10,400 (\$1,400 + \$5,200 + \$2,400 + \$1,400) Current liabilities = \$5,700 (\$2,400 + \$1,300 + \$2,000) Net working capital = \$4,700 (\$10,400 - \$5,700)

 $\begin{array}{rcl} \text{Current} \\ \text{ratio} \end{array} = & \frac{\$10,400}{\$5,700} = & 1.82 \end{array}$

January 31, 2019

Current assets = 10,300 ($700^{1} + 6,800^{2} + 2,400^{3} + 400^{4}$)

Current liabilities = $4,900 (1,300^5 + 1,300^6 + 2,300^7)$

Net working capital = \$5,400 (\$10,300 - \$4,900)

 $\begin{array}{rcl} \text{Current} \\ \text{ratio} \end{array} = & \begin{array}{r} \frac{\$10,300}{\$4,900} = & 2.10 \end{array}$

Computations of January 31, 2019 balances:

¹Cash = \$1,400 - \$7,400 + \$7,800 - \$1,100 = \$700

²Receivables = \$5,200 + \$9,400 - \$7,800 = \$6,800

³No change in the Inventory balance.

⁴Prepaid expenses = \$1,400 - \$1,000 = \$400

⁵Accounts payable = \$2,400 - \$1,100 = \$1,300

⁶No change in the Unearned Revenue balance.

⁷Accrued expenses payable = \$2,000 + \$300 = \$2,300

Conclusion: Saginaw's net working capital and current ratio improved during January 2019. The company's current ratio is very strong.

a.	Net income:		
	Service revenue:		
	(\$158,000 + \$1,620 + \$31,600)		\$191,220
	Expenses:		
	Salary (\$36,000 + \$3,000)	\$ 39,000	
	Depreciation – building	2,700	
	Supplies	3,500	
	Insurance	1,500	
	Advertising	7,100	
	Utilities	2,200	
			56,000
	Net income		<u>\$135,220</u>
b.	Total assets:		
	Cash		\$ 7,200
	Accounts receivable (\$7,700 + \$31,600)		39,300
	Supplies (\$4,600 – \$3,500)		1,100
	Prepaid insurance (\$3,400 – \$1,500)		1,900
	Building	\$105,000	
	Less: Accum. Depr. (\$16,200 + \$2,700)	<u>(18,900</u>)	86,100
	Land		57,000
	Total assets		<u>\$192,600</u>

c. Total liabilities:

	Accounts payable Salary payable Unearned service revenue		\$	6,600 3,000
	(\$5,400 – \$1,620) Total liabilities		<u>\$</u>	<u>3,780</u> 13,380
d.	Total stockholders' equity:			
	Common stock Retained earnings, beginning Add: Net income Subtotal	\$ 46,000 <u>135,220</u> 181,220	\$	10,000
	Less: Dividends declared Total stockholders' equity	(12,000)	<u>1</u> <u>\$1</u>	<u>69,220</u> 79,220

e. Total assets = Total liabilities + Total stockholders' equity \$192,600 = \$13,380 + \$179,220 Crystal Detailing Co. Balance Sheet

January 31, 2019

ASSETS		LIABILITIES	
Cash (a)	\$ 25,900	Accounts payable (g)	\$ 1,000
			. ,
Accounts receivable (c)	600	Advertising payable (h)	200
Supplies (d)	700	Salary payable (i)	400
Total current assets	27,200	Unearned gift	
		certificate revenue* (b)	1,400
Equipment (e) \$38,500		Total liabilities	3,000
Less: Accum.			0,000
	24 500		
deprec.(f) <u>(14,000)</u>	24,500		
		STOCKHOLDERS' EQUIT	(
		Common stock (j)	22,000
		Retained earnings (k)	<u>26,700</u>
		Total stockholders'	
		equity	48,700
		Total liabilities and	-,
Total assets	<u>\$51,700</u>	stockholders' equity	<u>\$51,700</u>

*Unearned Service Revenue and Unearned Gift Certificate Revenue are both Unearned Revenue accounts

(continued) P 3-76

Supporting computations (a)	Cas	h		
Bal. 12/31/2018	800			
Cash collections from		8,000	Salaries paid	
customers	37,700	800	Dividends paid	
Issuance of common stock	8,000	3,500	Purchase of equipment	
		6,100	Payments of accounts payable	
		2,200	Advertising paid	
Bal. 1/31/2019	25,900	1,50		
(b) Unearne	d Gift Cert	ificate Re	evenue	
		1,100	Bal. 12/31/2018	
Gift certificate revenue earned	1,200	1,500	Sale of gift certificates	
		1,400	Bal. 1/31/2019 (given)	
(c) A(ccounts R	eceivable)	
Bal. 12/31/2018	1,800			
Revenue on account	35,000	36,200	Collections from customers*	
Bal. 1/31/2019	600			
* Excludes the \$1,500 for gift certificates which was received in advance, not on account				

<u>(d)</u>	Supplies			
Bal. 12/31/2018	1,300			
Purchase of supplies	3,100	3,700 Supplies expense		
Bal. 1/31/2019	700			

(e) Equipment = \$38,500 (\$35,000 + \$3,500)

(f) Accumulated depreciation = \$14,000 (\$7,000 + \$7,000)

<u>(g)</u>	Accounts Payable				
		4,000	Bal. 12/31/2018		
Payments on account	6,100	3,100	Purchase of supplies		
		1,000	Bal. 1/31/2019		

(h) \$2,400 Advertising expense – \$2,200 advertising paid

<u>(i)</u>	Salary Payable		
		1,400	Bal. 12/31/2018
Salaries paid	8,000	7,000	Salary expense
		400	Bal. 1/31/2019

(j) Common Stock = \$22,000 (\$14,000 + \$8,000)

(k) Retai	Retained Earnings		
		11,400	Bal. 12/31/2018
Dividends	800	16,100	Net income
		26,700	Bal. 1/31/2019

(25 min.) C3-77

Req. 1

Jan. 3	a. Supplies Expenses Prepaid Expenses (\$13,378 + \$63,500 – \$12,580)	64,298	64,298
	b. Rent Expense Prepaid Rent (\$5,236 + \$47,700 – \$16,072)	36,864	36,864
	c. Gift Cards (Liability) Gift Card Revenue (\$153,629 + \$379,000 – \$123,619)	409,010	409,010
	d. Salaries and Wages Expense Salaries and Wages Payable (\$31,570 – \$31,570 + \$39,401)	39,4 e	01 39,401

Req. 2

If these adjusting journal entries had not been made for 2016, Cheesecake Factory's operating income would be impacted. Supplies Expense would be lower, Rent Expense would be lower, and Salaries Expense would be lower all resulting in (\$64,298 + \$36,864 + \$39,401) \$140,563 higher operating income than the reported amount. Gift Card Revenue would be lower if the adjusting entry was not made, causing operating income to be understated by \$409,010.

Net impact on Operating Income =

Expenses understated	\$140,563
Revenues understated	409,010
Operating income understated by	\$268,447

Decision Cases

(25 min.) C3-78

	Debit	Credit
Cash	\$ 8,000	
Accounts receivable	4,200	
Supplies	800	
Prepaid rent	1,200	
Land	43,000	
Accounts payable		\$12,000
Salary payable		-0-
Unearned service revenue		700
Note payable, due in 3 years		23,400
Common stock		5,000
Retained earnings		9,300
Service revenue		9,100
Salary expense	3,400	
Rent expense	-0-	
Advertising expense	900	
Supplies expense	<u> </u>	
Totals	<u>\$61,500</u>	<u>\$59,500</u>
	Out of balanc	e \$2,000

Req. 1 Unadjusted trial balance:

Req. 2 Adjusted trial balance:		
	Debit	Credit
Cash	\$ 8,000	
Accounts receivable	4,200	
Supplies (\$800 – \$400)	400	
Prepaid rent (\$1,200 × 11/12)	1,100	
Land	43,000	
Accounts payable		\$12,000
Salary payable		1,000
Unearned service revenue (\$700 – \$500)		200
Note payable, due in 3 years		25,400
Common stock		5,000
Retained earnings		9,300
Service revenue (\$9,100 + \$500)		9,600
Salary expense (\$3,400 + \$1,000)	4,400	
Rent expense (\$1,200 × 1/12)	100	
Advertising expense	900	
Supplies expense	400	
Total	<u>\$62,500</u>	<u>\$62,500</u>

Req. 2 Adjusted trial balance:

Req. 3

Current ratio		+ \$400 + \$1,100 1,000 + \$200
	$= \frac{\$13,700}{\$13,200} = 1$.04

We might have trouble sleeping at night with a current ratio of 1.04. To be safe, the current ratio should be around 1.50 or higher.

Tree City Cafe, Inc. Income Statement Month Ended October 31, 2018

Sales revenue		\$32,000
Cost of goods sold	\$12,000	
Wages expense	5,000	
Rent expense	4,000	
Insurance expense	1,000	
Depreciation expense, fixtures	1,000	23,000
Net income		<u>\$ 9,000</u>

Tree City Cafe, Inc. Statement of Retained Earnings Month Ended October 31, 2018

Retained earnings, October 1, 2018	\$	0
Add: Net income	9,0	000
Less: Dividends declared	<u>(3,0</u>	<u>)00</u>)
Retained earnings, October 31, 2018	<u>\$6,0</u>	<u>000</u>

Tree City Cafe, Inc. Balance Sheet October 31, 2018			
ASSETS LIABILITIES			
Cash	\$ 8,000	Accounts payable	\$ 7,000
Food inventory	5,000	Unearned revenue	3,000
Prepaid insurance	1,000		10,000
Dishes, silver	4,000		
Fixtures \$24,000		OWNERS'	EQUITY
Less: Accum.		Common stock	\$25,000
deprec. <u>(1,000</u>)	23,000	Retained earnings	<u>6,000 31,000</u>
Total assets	<u>\$41,000</u>	Total liabilities and	equity <u>\$41,000</u>

Recommendation: Do not expand the business. It is not meeting Pulito's goals for net income or for total assets.

Req. 1 (your highest price)

Advertising revenue (\$22,000 + \$4,000)		\$26,000
Expenses:		
Salary	\$4,000	
Utilities	900	
Other (unrecorded)	1,100	
Salary of your manager	<u>5,000</u>	<u>11,000</u>
Your expected monthly net income		\$15,000
Multiplier to compute price		X 16
Your highest price		<u>\$240,000</u>

Req. 2 (Gardner's asking price)

Gardner Advertising, Inc. Calculation of Asking Price Based on Stockholders' Equity On June 30, 2018				
Beginning retained earnings		\$ 93,000		
Add: Net income				
Revenue (\$22,000 + \$4,000)	\$26,000			
Less: Expenses				
(\$4,000 + \$900 + \$1,100)	(6,000)	20,000		
Subtotal		113,000		
Less: Dividends declared		(9,000)		
Ending retained earnings		\$104,000		
Calculation of asking price:				
Ending retained earnings, above		\$104,000		
Add: Common stock		50,000		
Total Stockholders' equity, June 30, 2018		\$154,000		
Multiplier to compute price		<u>X 2</u>		
Gardner's asking price		<u>\$308,000</u>		

You may start by offering Gardner approximately \$225,000 for the business. Her asking price is \$308,000 so you are starting out quite far apart. If Gardner appears especially eager to sell out, you may be able to buy the firm for closer to your highest price of \$240,000. However, if she is not so eager to sell and if you want the business badly enough, you may have to pay somewhere between \$240,000 and \$308,000. It might pay to hire an expert to value the business's assets. You may find that Gardner's price is inflated based on the value of its assets. You can always raise your offer, but you cannot decrease it, so start the negotiating process with an offer around \$225,000.

- 1. The journal entry to record the revenue is:
 - Dec.Accounts Receivable.....XXXSales Revenue.....XXX

The debit to Accounts Receivable will increase total current assets and, as a result, increase (improve) the current ratio. The debit to Accounts Receivable will increase total assets and, as a result, decrease (improve) the debt ratio.

2. a. -c. The issue is whether it is ethical to record the revenue in the current year. The contract has been signed, but the implication is that the company will not have done everything it needs to do in order to earn the revenue in the current year. The stakeholders are the company, the bank, the stockholders, and the company's other creditors. From an economic standpoint, the entry would obviously improve the company's short term financial position. However, the advantage would probably be short-lived. When the bank finds out about this entry, they will likely protest, and demand immediate payment, so the longer-term economic impact will likely be negative. From a "legal" standpoint, to record this transaction in December violates GAAP by violating the *revenue principle*. In this case Blue Vista Energy has not made the sale (has not delivered the gas) to the customer and, therefore, has not earned the revenue prior to December 31 of the current year. From an ethical standpoint, recording this revenue violates the bank's rights for proper disclosure

of the company's income and assets. Revenue should be recorded no earlier than when it is earned. Blue Vista expects to earn the revenue in January of next year. Blue Vista clearly cannot record this revenue until it is earned. To do so is not in their best economic, legal (GAAP) or ethical best interests.

- 3. The authors would suggest either of two actions. Blue Vista can either:
 - a. Report the current ratio of 1.47 and the debt ratio of .51 because these are the true values. Then tell the bank of the signed contract for additional work and the hope for a better set of ratio values next year. In some cases, banks will agree to sign a *waiver* of the terms of loan covenants, meaning that, although the company is in violation, the bank will not move to enforce the covenant. They may give Blue Vista a "grace period" to cure the violation in the covenant.
 - b. Pay off some current liabilities before year end. This will improve both the current ratio and the debt ratio. This may enable Blue Vista to bring its ratio values into compliance with the bank's requirements.

- 1. These transactions overstate the reported income of the company by \$31,000 (\$15,000 + \$14,000 + \$2,000).
- 2. It appears that Summit wants to improve the company's reported income in order to borrow on favorable terms. Her action is *unethical and probably illegal as well* because she is deliberately overstating the company's reported income.

Summit appears to be letting the potential short term economic advantage of these deliberate misstatements take precedence. She needs to remember that these misstatements violate GAAP, and that, depending on what use is made of the financial statements, could subject the company to civil or criminal legal proceedings. If this happens, the short term economic gains (\$31,000) would not even come close to the long-term economic costs associated with the legal actions, not to mention the negative publicity. The business will need a bank loan, and perhaps the money would be used to pay bills, expand the business, and so on. However, based on Summit's lack of integrity, the money may be destined for her own use. Regardless of its use, the money is obtained under false pretenses and cannot be headed for a good outcome.

The bank is harmed by Summit's and Loftus' actions. Lending money to Summit under false pretenses may lead the bank to charge an unrealistically low interest rate that robs the bank's owners of interest revenue. In the extreme, the public is robbed if taxpayers wind up financing the bailout of a failed institution.

- 3. Personal advice will vary from student to student. The purpose of asking this question is to challenge students to take the high road of ethical conduct by having nothing to do with Summit's scheme. The authors would advise Loftus, the accountant, to take these actions, in order:
 - a. Refuse to take any part in Summit's scheme, explaining that the result is overstatement of reported income. This is both illegal and unethical, and will ultimately have a negative economic impact on the company, as well. Accountants are bound to standards of ethical conduct that these actions violate. They can go to prison when caught falsifying financial statements.
 - b. To remain ethical, the accountant must be willing to lose his/her job. It is better to protect one's reputation even if that causes a short-term hardship.

Student answers may vary.

(15-20 min.)

Req. 1

Accrued expenses are expenses that have been incurred but that have not yet been paid as of the balance sheet date. The accrual basis of accounting and the expense recognition principle require that all expenses be recognized (recorded) during the period in which they are incurred in order to earn revenue, regardless of when they are paid.

Req. 2 (amounts in millions)

Accrued expenses were \$22,027 and \$25,181 for 2016 and 2015 respectively. Accrued expenses are a liability account. Since Apple has not paid an expense that it has incurred, it owes that amount to an external party creating a liability.

Req. 3 (amounts in millions)

	2016		2015	5
Current assets – Current liabilities =	\$106,869 - \$79,006 =	\$27,863	\$89,378 - \$80,610 =	\$8,768
Current ratio:	2016	3	2015	
Total current assets	\$106,869		\$89,378	
Total current liabilities	= \$79,006	= 1.35	\$80,610	= 1.11

Debt ratio:

		201	6	2015		
Total liabilities		\$193,437	- 0.00	\$170,990	0.50	
Total assets	=	\$321,686	= 0.60	\$290,345	= 0.59	

The current ratio and net working capital increased or improved, and the debt ratio slightly worsened during 2016. This reveals more liquidity and slightly higher debt. Also, the size of the firm overall has increased (indicated by total assets), as well as its working capital increase which makes sense because it should increase to support Apple now that it is a larger firm.

The trend in the liquidity measures examined is improving. The current ratio of 1.35 indicates financial strength. Many successful companies operate with this type of current ratio. The debt ratio did not change much. The debt ratio also indicates financial strength because the norm for the debt ratio for most companies is 0.60 to 0.70.

Focus on Analysis: Under Armour, Inc.

(15-20 min.)

Req. 1

Revenues are recognized at the time that a transfer of title and risk of loss occurs. Additionally, Under Armour recognizes revenue from licensees in the form of initial fees, continuing fees, renewal fees, and rental income. License and other revenues are recognized based upon shipment of the licensed products sold by licensees. Under Armour imposes sales tax on the company's revenue on a net basis and do not affect net revenue. Additionally, Under Armour reduces gross revenue by returns, allowances, markdowns, and deductions. These are estimated on a historical basis and contractual obligations.

Req. 2

Under Armour's receivables are primarily from its sales and licensees. The cash and royalties from the sales and licensees are generally due within 30 days of the sale. Thus, the receivables are included in revenues when the sales occur and become an account receivable. The beginning balance of Accounts Receivable, \$434 million, represents revenue earned in fiscal 2015 but not received (collected in cash) until fiscal 2016. The ending balance of Accounts Receivable, \$623 million, represents revenue earned in fiscal 2016 but not received (collected) until fiscal 2017. The balance will most likely not be 100% collectible because events may occur that might cause some to not be collected. Under Armour has allowed for \$11.3 million and \$5.9 million possible uncollectible accounts in 2016 and 2015 respectively.

Req. 3 (in millions)

"Prepaid expenses and other current assets" include expenses that Under Armour has paid for, but has not yet used. Some examples of this could include supplies, insurance, advertising, or rent:

	Journal		
DATE	ACCOUNT TITLES AND EXPLANATION	DEBIT	CREDIT
	Supplies Cash	23	23
Or:			
	Prepaid Insurance Cash	23	23
Or:			
	Prepaid Rent Cash	23	23

Req. 4

Since depreciation expense increased Accumulated Depreciation by \$104 million, a decrease of \$40 million (\$293 million + \$144 million - \$397 million) must have occurred as well. This decrease is most likely from the sale of property, plant, and equipment when accumulated depreciation on the property disposed of was removed from the books.

Accumulated	Depreciation

		293 million	Dec. 31, 2015
Depreciation on assets sold	40 million	144 million	Depreciation Expense
		397 million	Dec. 31, 2016

The primary categories of items in Accrued Expenses are Accrued Compensation and Benefits, and Accrued Marketing Expenses. Accrued Expenses represent an accrued liability account. When the company incurs compensation and benefits expense, the Accrued Compensation and Benefits Payable account is credited. When the company pays the compensation and benefits, this amount is debited to Accrued Compensation and Benefits Payable.

The expense relating to the accrued compensation and benefits was recorded in the year the expense was incurred—when the employees performed the work. Accordingly, the \$61 million accrued compensation and benefits represents work performed during fiscal 2016 but not paid until fiscal 2017 or later. The expense relating to the accrued marketing expense was recorded in the year the expense was incurred—when the sponsors wore Under Armour's brand. As a result, marketing expenses of \$25 million occurred during fiscal 2016 but will not be paid until fiscal 2017 or later.

From 2015 to 2016, Under Armour's Accrued Expenses increased from \$193 million to \$209 million. (This information is from the balance sheets.) This change would decrease the company's overall net income. This means Under Armour will have to spend more in 2017 or later to satisfy a larger amount of debt. Req. 1 (after Req. 6)

Req. 2

Whitmer Electron Income State Three Months Ended De	ment	
Service revenue (\$33,000 + \$3,000)		\$36,000
Expenses:		
Payroll tax expense	\$ 575	
Rent expense (\$3,000 × 1/2)	1,500	
Utilities expense	825	
Supplies expense	8,500	
Salary expense (\$3,500 + \$5,000 + \$500)	9,000	
Fuel and maintenance expense	1,200	
Insurance expense	700	
Advertising expense	700	
Depreciation expense – truck	300	
(\$6,000/5 × 3/12)		
Depreciation expense – tools	100	
(\$1,200/3 × 3/12)		
Income tax expense	<u>1,680</u>	
Total expenses		25,080
Net income		<u>\$10,920</u>

Whitmer Electronics, Inc. Statement of Retained Earnings Three Months Ended December 31, 2018

Retained earnings, October 1, 2018	\$	0
Add: Net income	<u>10</u>	<u>,920</u>
Retained earnings, December 31, 2018	<u>\$10</u>	<u>,920</u>

	v		ectronics, Inc. ce Sheet		
		Decembe	er 31, 2018		
AS	SSETS		LIABILITIES		
Current assets:			Current liabilities:		
Cash		\$10,800	Salary payable	\$ 500	
Accounts reco	eivable	3,000	Advertising payable	100	
Prepaid rent		1,500	Income tax payable	<u>1,680</u>	
Phone deposi	t	100	Total current liabilities	2,280	
Supplies		1,000			
Total current	t assets	16,400			
			STOCKHOLDERS' EQUITY		
Long-term asset	ts:		Common stock	10,000	
Tools	\$1,200		Retained earnings	10,920	
Less: accum. deprec.	(100)	1,100			
Truck	\$6,000				
Less: accum.					
deprec.	(300)	<u>5,700</u>	Total stockholders' equity	20,920	
Total long-ter	m assets	6,700	Total liabilities and		
Total assets		<u>\$23,200</u>	stockholders' equity	<u>\$23,200</u>	

Whitmer Electronics, Inc. Statement of Cash Flows Three Months Ended December 31	, 2018	
Cash flows from operating activities:		
Collections from customers		\$ 33,000
Payments:		
For suppliers*	\$16,400	
To employees	<u>8,500</u>	<u>24,900</u>
Net cash provided by operating activities		8,100
Cash flows from investing activities:		
Purchase of truck	\$(6,000)	
Purchase of tools	(1,200)	
Prepaid for phone	<u>(100)</u>	
Net cash used for investing activities		(7,300)
Cash flows from financing activities:		
Issuance of common stock	<u>10,000</u>	
Net cash provided by financing activities		10,000
Net increase in cash		\$10,800
Cash balance, beginning		-0-
Cash balance, ending		<u>\$10,800</u>

* Payments to suppliers include supplies (\$9,500), rent (\$3,000), fuel and maintenance (\$1,200), insurance (\$700), utilities (\$825), advertising (\$600), and payroll taxes (\$575).

Current ratio \$16,400/2,280 = 7.19

Net working capital = \$16,400 - \$2,280 = \$14,120

Debt ratio = \$2,280/\$23,200 = 0.098

With a current ratio of 7.19, the company has a high amount of liquidity. With a debt ratio of 0.098, the company has very low debt ratio. They can easily take on more debt.

If the 5 year loan for \$15,000 is granted, the ratios would change as follows:

Current ratio (\$16,400 + \$15,000)/\$2,280 = 13.77

Net working capital = \$16,400 + \$15,000 - \$2,280 = \$29,120

Debt ratio = (\$2,280 + \$15,000)/(\$23,200 + \$15,000) = 0.452

The current ratio and the debt ratio increase with the new loan. The current ratio improves with the inflow of cash from the loan. The debt ratio increases with the new loan, but it is not terribly high. As loan officer of the bank, I think the loan should be granted. The company has excellent liquidity and very little debt, so they should be able to handle interest and principal payments on the new loan. Even with the loan, the company's debt ratio is 0.452 which is not considered very high or risky.

	ASSETS						LIABILITIES + STOCKHOLDERS' EQUITY					RS'
Cash	Acct. Rec.	Phone Deposit	Supplies	Prepaid Rent	Truck	Tools	Salary Pay.	Advert. Pay.	Income Taxes Pay.	Common Stock	Retained Earnings	Stockholders' Equity Transaction
10,000										10,000		Issued stock
(6,000)					6,000							
(1,200)						1,200						
(3,000)				3,000								
(100)		100										
33,000											33,000	Service Rev.
	3,000										3,000	Service Rev.
(5,000)											(5,000)	Salary Exp.
(3,500)											(3,500)	Salary Exp.
							500				(500)	Salary Exp.
(575)											(575)	Payroll Tax Exp.
(9,500)			9,500									
			(8,500)								(8,500)	Supplies Exp.
(1,200)											(1,200)	Fuel & Maint. Exp.
(700)											(700)	Insurance Exp.
(825)											(825)	Utilities Exp.
(600)								100			(700)	Advert. Exp.
				(1,500)							(1,500)	Rent Exp.
									1,680		(1,680)	Income Tax Exp.
					(300)						(300)	Depr. Exp.–Truck
						(100)					(100)	Depr. Exp.–Tools
10,800	3,000	100	1,000	1,500	5,700	1,100	500	100	1,680	10,000	10,920	Totals

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