
CHECK FIGURES FOR EVEN-NUMBERED END-OF-CHAPTER DRILL AND WORD PROBLEMS

CHAPTER 1

1-2.	1,492	1-30.	20,886; 21,000	1-58.	1,080
1-4.	158	1-32.	124	1-60.	106
1-6.	181, 713	1-34.	215,045	1-62.	\$547,400
1-8.	59	1-36.	672	1-64.	\$1,872,000
1-10.	88	1-38.	102	1-66.	\$4,815; \$250,380
1-12.	900	1-40.	42 R18	1-68.	\$54,872
1-14.	440	1-42.	1,243	1-70.	200,000; 10,400,000
1-16.	270,000	1-44.	7,690; 6,990	1-72.	\$1,486
1-18.	262,650	1-46.	70,470; 72,000	1-74.	\$33; no
1-20.	180	1-48.	700	1-76.	\$796
1-22.	41	1-50.	\$735,000,000; \$186,000,000	1-78.	\$600,000; \$150,000
1-24.	143 R49	1-52.	\$4,800,000; \$3 \$2,436; \$3,056; \$620	1-80.	\$12,000 Difference
1-26.	1,143	1-54.	More		
1-28.	1,028	1-56.	\$905,600		

CHAPTER 2

2-2.	M	2-26.	$15\frac{5}{6}$	2-50.	$365\frac{3}{8}$ gallons
2-4.	$6\frac{8}{9}$	2-28.	90	2-52.	\$35,000
2-6.	$\frac{89}{9}$	2-30.	$1\frac{2}{21}$	2-54.	275 gloves
2-8.	$\frac{8}{19}$	2-32.	$1\frac{7}{12}$ yards needed	2-56.	$4\frac{1}{8}$ days left
2-10.	63	2-34.	$4\frac{5}{8}$ lbs.	2-58.	$17\frac{3}{4}$ hours to go
2-12.	72	2-36.	$33\frac{1}{4}$ hours	2-60.	6,750
2-14.	$\frac{1}{2}$	2-38.	$398\frac{1}{8}$ feet	2-62.	4,800
2-16.	$10\frac{1}{2}$	2-40.	$\frac{3}{14}$ ton	2-64.	$15\frac{3}{8}$ yards
2-18.	$16\frac{3}{5}$	2-42.	\$170,000	2-66.	\$36,000
2-20.	$3\frac{3}{4}$	2-44.	540 guests	2-68.	$103\frac{3}{4}$ inch, $1\frac{1}{3}$ inch left
2-22.	34	2-46.	\$72		
2-24.	568	2-48.	$2\frac{1}{2}$ hours		

CHAPTER 3

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|-------------------------------------|----------------------------------|---|
| 3-2. thousandths | 3-28. $6\frac{25}{1,000}$ | 3-60. .845 |
| 3-4. 5.0; 4.98; 4.983 | 3-30. 303.02 | 3-62. .94 |
| 3-6. 6.8; 6.84; 6.842 | 3-32. .775 | 3-64. \$43.37; \$45.59; \$2.22 |
| 3-8. 76; 75.99; 75.991 | 3-34. 2,811.78 | 3-66. \$225.90; \$74.10 |
| 3-10. \$4,892.05 | 3-36. 4.9185 | 3-68. \$353.54 |
| 3-12. .40 | 3-38. 24; 24.336 | 3-70. \$153.36; \$119.04;
\$34.32; \$118.64 |
| 3-14. .91 | 3-40. 1,400; 1,296 | 3-72. \$4,231.64 |
| 3-16. .98 | 3-42. .30 | 3-74. \$6,650.28 |
| 3-18. $\frac{6}{10}$ | 3-44. .09 | 3-76. a. \$.05 laundry |
| 3-20. $\frac{6}{1,000}$ | 3-46. 7.58 | 3-78. 40.24; yes |
| 3-22. $\frac{609}{1,000}$ | 3-48. .13 | 3-80. \$5.70 |
| 3-24. $\frac{9,999}{10,000}$ | 3-50. .83 | 3-82. \$417.36 |
| 3-26. $7\frac{4}{10}$ | 3-52. 9.67 | 3-84. \$258.25 |
| | 3-54. 8,510 | 3-86. \$10,712; \$13,520
\$2,808; \$3,328 |
| | 3-56. 901.5 | 3-88. \$560.45 |
| | 3-58. 7,500 | |

CHAPTER 4

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|------------------------|-------------------------|-------------------------|
| 4-2. \$6,587.11 | 4-8. \$799.12 | 4-12. \$1,535.15 |
| 4-4. \$4,478.22 | 4-10. \$1,212.60 | 4-14. \$1,862.13 |
| 4-6. \$.73 | | |

CHAPTER 5

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|--------------------------------------|---|---|
| 5-2. $C = 100$ | 5-20. $C = 12$ | 5-34. $S = 1,100$ |
| 5-4. $Q = 910$ | 5-22. $B = 3$ | 5-36. Jill, \$10,000;
Phyllis, \$30,000 |
| 5-6. $P = 552$ | 5-24. $S = \$40,000$ | 5-38. 60 bottles; 420
thermometers |
| 5-8. $N = 80$ | 5-26. $D = \$201,200$ | 5-40. $C = 208; W = 229$ |
| 5-10. $P = 12$ | 5-28. 19 cartons pens; 5
cartons rubber bands | |
| 5-12. $P = \$25,090$ | 5-30. $Y = 1$ | |
| 5-14. Lane; 30; Nanda, 90 | 5-32. $C = 1,000$ | |
| 5-16. 50 shorts; 200 t-shirts | | |
| 5-18. $A = 14$ | | |

CHAPTER 6

6-2.	95.1%	6-32.	600	6-68.	900
6-4.	800%	6-34.	4,800	6-70.	\$742,500
6-6.	600.6%	6-36.	12,000	6-72.	\$220,000
6-8.	.12	6-38.	62.5%	6-74.	33.3%
6-10.	.759	6-40.	26%	6-76.	480
6-12.	.89	6-42.	4%	6-78.	\$39,063.83
6-14.	.3%	6-44.	558	6-80.	\$94.34
6-16.	91.7%	6-46.	50	6-82.	\$1,900
6-18.	$\frac{37}{200}$	6-48.	4.44%	6-84.	\$102.50
6-20.	$\frac{123}{200}$	6-50.	+7.89%	6-86.	3.7%
6-22.	$1\frac{41}{50}$	6-52.	20%	6-88.	\$2,571
6-24.	5,400	6-54.	7,456; 144	6-90.	1,694; 1,309
6-26.	153.39	6-56.	23.32 mpg	6-92.	1,600
6-28.	9.52	6-58.	1,080,000	6-94.	32,000
6-30.	135	6-60.	23.19%	6-96.	\$18.76; \$11.73
		6-62.	6%		4.00%
		6-64.	\$30,000		
		6-66.	yes; \$15,480		

CHAPTER 7

7-2.	.86704; .143296; \$28.52; \$170.48	7-20.	\$416.67; \$18.33	7-38.	\$360; \$840
7-4.	\$2,620.80; \$379.20	7-22.	\$47.99	7-40.	\$5,344
7-6.	\$268.34; \$51.66	7-24.	\$1,814	7-42.	\$6,940; \$7,080
7-8.	B; 32.49%	7-26.	B; .3192	7-44.	\$5,459.25
7-10.	Jan. 10; Jan. 30	7-28.	\$4,165	7-46.	\$13,644.77; \$4,490.23
7-12.	May 10; June 9	7-30.	42.86%	7-48.	\$363.38; \$382.50
7-14.	Feb. 13; March 5	7-32.	\$8,232	7-50.	\$4,794.99
7-16.	\$12; \$588	7-34.	\$244.44; \$805.56		
7-18.	\$4; \$496	7-36.	a. .145		

CHAPTER 8 (For Full Edition)

8-2.	\$80; \$480	8-18.	\$870	8-32.	\$195
8-4.	\$3,076.92	8-20.	\$49.30; 85%	8-34.	\$129.99
8-6.	\$4.60; \$9.30	8-22.	3,250%	8-36.	\$2.31
8-8.	\$24; \$56	8-24.	\$92.31	8-38.	\$4,629.63; \$400; \$10,204.08
8-10.	\$1,777.78	8-26.	18.19%	8-40.	\$135.69; \$115.34; \$20.36 Loss
8-12.	\$16; \$20	8-28.	\$3.43		
8-14.	15%	8-30.	\$558.60		
8-16.	\$25.28; \$1.40				

CHAPTER 9

9-2.	\$324	9-16.	-0-; \$58	9-28.	\$202.65
9-4.	\$11.40; \$372.40	9-18.	\$254.03; \$117.80; \$27.55; \$1,500.62	9-30.	SUTA: \$946.40 FUTA: \$135.20
9-6.	\$490.68	9-20.	\$38,896	9-32.	\$1,603.81; \$52; \$143.34 overstated
9-8.	\$82.75	9-22.	1.03%; \$55.80		
9-10.	\$1,400	9-24.	\$3,120		
9-12.	\$7,975; \$2,975; \$59.50; \$309.50	9-26.	\$21,300		
9-14.	\$111.60; \$26.10				

CHAPTER 10

10-2.	\$1,050; \$13,050	10-14.	166 days	10-26.	\$2,610.16
10-4.	93; \$20.67; \$1,020.67	10-16.	\$78.78; \$2,378.78	10-28.	5.8 years
10-6.	187; \$74.80; \$1,274.80	10-18.	\$704,710.11	10-30.	\$610.02; \$11,610.02
10-8.	193; \$27.84; \$612.84	10-20.	\$12,500	10-32.	\$540
10-10.	5 years	10-22.	\$21.86	10-34.	\$186.02
10-12.	12%	10-24.	\$1,500; \$1,125	10-36.	6,815.10; 6,834.38; \$19.28 saved

CHAPTER 11

11-2.	\$625; \$19,375	11-8.	\$7,800; 5.13%	11-14.	\$3,057.60
11-4.	27	11-10.	.96%	11-16.	\$8,104.96
11-6.	\$25,375; 28; \$177.63; \$25,197.37	11-12.	\$7,551.53; \$7,379.39	11-18.	\$329,955; 329,524.33, \$431.31 more

CHAPTER 12

12-2.	\$10,545; \$1,545.30	12-14.	6.14%	12-26.	\$7,166.50
12-4.	\$2,837; \$837	12-16.	\$82,797.85	12-28.	\$123,600
12-6.	\$1,103.27	12-18.	\$55,571.04	12-30.	\$2,000 x .06 x $\frac{270}{365} = \$88.77$
12-8.	48; 1 ½%; .4894; \$4,355.66	12-20.	\$16,535.75; \$4,535.75	12-32.	\$689,125
12-10.	20; 8%; .2145; \$4,290	12-22.	\$5,931.90		
12-12.	\$1,638.60; \$638.60	12-24.	\$59,997		

CHAPTER 13

13-2.	\$146,797	13-12.	\$3,797.79	13-22.	\$1,170
13-4.	\$6,749.23	13-14.	\$71,868	13-24.	\$128,492.52
13-6.	\$203,665.50	13-16.	\$22,354.71	13-26.	Morton \$179,744.50
13-8.	\$822.50	13-18.	\$88,338	13-28.	\$78,574.20
13-10.	\$1,410 x 10.6366	13-20.	\$7,455.68	13-30.	\$2,175; \$2,501.25; \$93.05

CHAPTER 14

14-2.	\$236.25; \$37.25	14-10.	\$12,270; \$296.69	14-16.	\$785.74; \$6,047.66
14-4.	\$600; \$805; \$205	14-12.	\$7,880; $\frac{\$3,251.80}{\$7,880}$	14-18.	\$940.36
14-6.	\$99.07; \$98.61	14-14.	\$1,300; \$5,330	14-20.	\$545.68; \$24.32 under; \$586.66; \$16.66 over
14-8.	\$624; \$5,976				

CHAPTER 15

15-2.	\$482.80	15-12.	\$53,222.40	15-16.	\$150,000; \$799.20
15-4.	\$140,986.40	15-14.	\$82,040; \$90,920;	15-18.	\$92,495.50; \$415,954
15-6.	\$120,000; \$799.20;		\$99,920; \$113,720;		
	\$119,900.80		\$31,680 difference;		
15-8.	\$69,923		\$39,456 difference		
15-10.	\$266,400				

CHAPTER 16

16-2.	Total assets \$51,000	16-10.	330.00; 302.01	16-18.	355 million
16-4.	Net income \$14,481	16-12.	.47; .50	16-20.	9.12%; 16.9%; 11.39%;
16-6.	Cost of sales 61.05	16-14.	.02; .04		11.35%; 11.39%; 10.85%
16-8.	3.05; 3.79	16-16.	22.74%; 1.15%; 1.04;		
			.75		

CHAPTER 17

17-2.	Book value e.o.y. \$52,000	17-14.	\$6,000	17-26.	\$6,000; \$3,750
17-4.	Book value e.o.y. \$30,000	17-16.	\$400	17-28.	\$6,000
17-6.	Book value e.o.y. \$20,000	17-18.	\$2,240	17-30.	\$16,250
17-8.	Book value e.o.y. \$10,000	17-20.	\$54,000; \$13,500	17-32.	\$87,750; \$11.40;
17-10.	Book value e.o.y. \$4,000	17-22.	\$37,600; \$22,560		\$21,489; 4 yr.
17-12.	Book value e.o.y. \$1,000	17-24.	\$550; \$2,700 B.V.		

CHAPTER 18

18-2.	\$439.20; \$1,035.80	18-12.	\$76.80	18-22.	13; \$19.60; \$37.50;
18-4.	\$307; \$1,168	18-14.	\$221.80; \$271.55		\$28.21
18-6.	\$25	18-16.	\$16,881.20	18-24.	\$2.36
18-8.	\$48.75	18-18.	\$22,500	18-26.	\$426.50
18-10.	\$84	18-20.	\$25,250	18-28.	64; \$144; \$979.20

CHAPTER 19

19-2.	\$1,710	19-10.	2,600	19-20.	6.40 mills
19-4.	\$24,528.30	19-12.	\$10,937.50	19-22.	\$1,480
19-6.	\$168,000	19-14.	\$791	19-24.	\$45,455
19-8.	9.56%; \$9.56; \$95.60;	19-16.	\$47,100; \$22,180.80	19-26.	.0069447; \$8,700,000;
	95.60	19-18.	\$483.33		\$292.50; \$312.51; \$20.01

CHAPTER 20

20-2.	\$1,674.90	20-12.	\$35,000	20-22.	\$633.60; \$26.40
20-4.	\$802.50	20-14.	\$1,265; \$276	20-24.	\$162.54; \$439.46
20-6.	\$110,000	20-16.	\$1,342; \$28,530	20-26.	\$21,200; 5,300
20-8.	\$809	20-18.	\$2,230	20-28.	\$11,662.40; \$3,825; \$15,366
20-10.	\$120; \$240	20-20.	\$22.50 Diff.		\$5,126.25; 28.37%; 37.53%

CHAPTER 21

21-2.	\$77,490	21-14.	a. \$7.97; b. \$15.21	21-24.	\$4,437.50; \$587.50;
21-4.	.7%	21-16.	\$13,387.50		13.3%
21-6.	\$100.10	21-18.	\$192,000; \$308,000	21-26.	28; 24
21-8.	\$1,141 loss	21-20.	\$880; .80; \$68.75; 7.8%	21-28.	\$14.21; \$1,847.30
21-10.	\$2,632.50	21-22.	\$764.60	21-30.	12.87 shs; 2574 shs;
21-12.	\$235; \$2,300; 10.2%				5147 shs; \$103,756.44

CHAPTER 22

22-2. 14

22-4. \$421.32

22-6. 3.7

22-8. 82

22-10. 18

22-12. 2007: Up \$11,000 on optical axis

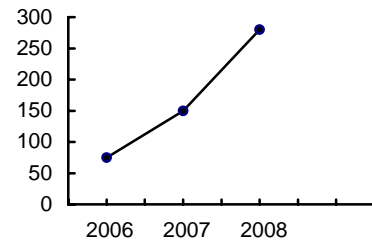
22-14. \$300-\$399.99 go up to 5 frequency on vertical axis

22-16. 63.4°; 40.68°; 20.52°; 17.64°; 16.92°; 195.84°

22-18. Others 54.72°

22-20. \$12-\$17.99 III 4

22-22.



22-24. 24.94%; 13.15%; 10.88%; 17.01%