



Name: \_\_\_\_\_

Date: \_\_\_\_\_

4. Darrell and his three cousins are dining at a restaurant. Their bill is for \$60 worth of food plus an additional 15% of the total for service charge. How much does each person pay if they share the bill equally?
5. Diana invests \$25,000 in a bank at the beginning of the year. She will receive 7% interest at the end of the year, but she will have to pay a 16% tax on the interest received.
- a) How much interest will Diana earn after she pays the tax?
- b) What percent of Diana's investment is the interest after paying the tax?

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6. Two types of sandwiches were made for a tea party. 55% of the sandwiches were cheese sandwiches and the rest were chicken sandwiches. If there were 252 chicken sandwiches, how many sandwiches were made altogether?
7. Lee buys a computer and a printer for \$2,028. The printer costs 30% of the price of the computer. What is the price of the computer?
8. Ali, Ben, and Cliff plant seedlings in their neighborhood park. Ali plants 40% of the total number of seedlings, Ben plants 45% of the total number of seedlings, and Cliff plants the rest of the seedlings. If Cliff plants 87 seedlings, how many seedlings do the three boys plant altogether?

11.  $100\% - 20\% - 40\% = 40\%$   
 $240 \times 40\% = 96$   
 Joanna makes 96 egg salad sandwiches.
12.  $100\% - 50\% - 35\% = 15\%$   
 $\frac{15}{100} \times 1,640 = 246$   
 246 students walk to school.
13.  $60\% \rightarrow 720$   
 $1\% \rightarrow 720 \div 60 = 12$   
 $100\% \rightarrow 12 \times 100 = 1,200$   
 There are 1,200 balls in the ball pit.
14.  $28\% \rightarrow \$350$   
 $1\% \rightarrow \$350 \div 28 = \$12.50$   
 $100\% \rightarrow 12.50 \times 100 = \$1,250$   
 His total savings is \$1,250.
15. a)  $62\% \rightarrow 310$   
 $1\% \rightarrow \$310 \div 62 = 5$   
 $100\% \rightarrow 5 \times 100 = 500$   
 There are 500 pages in the book.
- b)  $100\% - 62\% = 38\%$   
 $38\% \times 500 = 190$   
 190 pages in the book have no pictures.
16. a)  $95\% \times 400 = 380$   
 380 students are at the school carnival.
- b)  $100\% - 55\% = 45\%$   
 $45\% \times 380 = 171$   
 171 students at the school carnival are girls.
- c)  $100\% - 95\% = 5\%$   
 $5\% \times 400 = 20$   
 20 teachers are at the school carnival.
- d)  $100\% - 35\% = 65\%$   
 $65\% \times 20 = 13$   
 There are 13 female teachers at the school carnival.
17. a)  $55\% \times 1,800 = 990$  girls  
 990 students enrolled in school are girls.
- b)  $30\% \times 990 = 297$  girls  
 297 girls take the bus to school.
- c)  $1,800 - 990 = 810$  boys  
 $70\% \times 810 = 567$   
 567 boys take the bus to school.
18.  $30\% \times 160 = 48$  apples  
 Pears and oranges:  $160 - 48 = 112$   
 Oranges:  $100\% - 25\% = 75\%$   
 $75\% \times 112 = 84$  oranges  
 84 oranges are in the box.
19. Cost of the dress:  $30\% \times \$450 = \$135$   
 $\$450 - \$135 = \$315$   
 Money left:  $100\% - 20\% = 80\%$   
 $80\% \times \$315 = \$252$   
 Susan has \$252 left.

### Lesson 6.4

1. a)  $\frac{19}{50} \times 100\% = 38\%$   
 b)  $\frac{31}{50} \times 100\% = 62\%$
2.  $5\% \rightarrow \$490$   
 $1\% \rightarrow \frac{490}{5} = 98$   
 $100\% \rightarrow 100 \times \$98 = \$9,800$
3. Tax  $\rightarrow 7\% \times \$950 = \$66.50$   
 $\$950 + \$66.50 = \$1,016.50$   
 $\$1,016.50 - \$1,000 = \$16.50$   
 No, she does not have enough money to buy the television set. The cost, including tax, is \$1,016.50 for the television set, which is \$16.50 more than her budgeted amount.
4. Service charge =  $\frac{15}{100} \times \$60 = \$9$   
 Total =  $\$60 + \$9 = \$69$   
 $\$69 \div 4 = \$17.25$   
 Each person pays \$17.25.
5. a) Interest =  $7\% \times \$25,000 = \$1,750$   
 Tax =  $16\% \times \$1,750 = \$280$   
 Actual interest =  $\$1,750 - \$280 = \$1,470$   
 Diana will receive \$1,470 after paying the tax.
- b)  $\frac{1,470}{25,000} \times 100\% = 5.88\%$   
 The interest is 5.88% of Diana's investment after paying the tax.
6.  $100\% - 55\% = 45\%$   
 $45\% \rightarrow 252$   
 $1\% \rightarrow \frac{252}{45}$   
 $100\% \rightarrow \frac{252}{45} \times 100 = 560$   
 560 sandwiches were made altogether.
7. 

Computer	100%	} \$2,028
Printer	30%	

  
 $130\% \rightarrow 2,028$   
 $100\% \rightarrow \frac{2,028}{130} \times 100 = 1,560$   
 The price of the computer is \$1,560.
8.  $100\% - 40\% - 45\% = 15\%$   
 $15\% \rightarrow 87$   
 $1\% \rightarrow \frac{87}{15}$   
 $100\% \rightarrow \frac{87}{15} \times 100 = 580$   
 The three boys plant 580 seedlings altogether.