

Name \_\_\_\_\_

Intermediate 4, Lesson 62

**Formulate** Write and solve equations for problems 1 and 2.

- \*1. <sup>(52)</sup> There were twice as many peacocks as there were hens. If there were 12 peacocks, then how many hens were there?
- \*2. <sup>(43, 59)</sup> Mae-Ying bought a package of paper priced at \$1.98 and 2 pens priced at \$0.49 each. The tax on the entire purchase was 18¢. What was the total cost of the items? Explain why your answer is reasonable.
- \*3. <sup>(27)</sup> Raquel's dance class begins at 6 p.m. It takes 20 minutes to drive to dance class. What time should she leave home to be on time for dance class?
- \*4. <sup>(57)</sup> **Analyze** Glenda drove across the desert at an average speed of 60 miles per hour. At that rate, how far would she drive in 4 hours? Make a table to solve the problem.
- \*5. <sup>(61)</sup> Two thirds of the race was over. What fraction of the race was left?
- \*6. <sup>(59)</sup> **Estimate** Otieno bought a notebook for \$8.87 and paper for \$2.91. Estimate the total by rounding each amount to the nearest dollar, then add.
- \*7. <sup>(61)</sup> In the equation  $9 \times 11 = 100 - y$ , the letter  $y$  stands for what number?
- \*8. <sup>(56)</sup> **Represent** Compare:  $\frac{2}{4} \bigcirc \frac{4}{8}$ . Draw and shade two congruent circles to show the comparison.
- \*9. **Multiple Choice** <sup>(55)</sup> Recall that a prime number has exactly two factors. Which of these numbers has exactly 2 factors?  
 A 7                      B 8                      C 9                      D 10
- \*10. <sup>(54)</sup> According to this calendar, July 4, 2014 is what day of the week?

JULY 2014						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Name \_\_\_\_\_

\* 11. **Connect** Write four multiplication/division facts using the numbers 6, 3, and 18.  
(47)

\* 12.  $5 \times 6 \times 7$   
(62)

\* 13.  $4^3$   
(62)

14. 
$$\begin{array}{r} 476,385 \\ + 259,518 \\ \hline \end{array}$$
  
(51)

15. 
$$\begin{array}{r} \$20.00 \\ - \$17.84 \\ \hline \end{array}$$
  
(52)

16. 
$$\begin{array}{r} \phantom{0}c \\ - 19,434 \\ \hline 45,579 \end{array}$$
  
(24)

\* 17. 
$$\begin{array}{r} \$4.17 \\ \times \phantom{0}8 \\ \hline \end{array}$$
  
(58)

\* 18. 
$$\begin{array}{r} \$470 \\ \times \phantom{0}7 \\ \hline \end{array}$$
  
(58)

\* 19. 
$$\begin{array}{r} 608 \\ \times \phantom{0}4 \\ \hline \end{array}$$
  
(58)

20.  $4 \overline{)29}$   
(53)

21.  $8 \overline{)65}$   
(53)

22.  $5 \overline{)29}$   
(53)

23.  $65 \div 7$   
(53)

24.  $29 \div 5$   
(53)

25.  $65 \div 9$   
(53)

26. If 40% of the students are boys, then what percent of the students are girls?  
(Inv. 5)

\* 27. a. What is the perimeter of this square shown at right?  
(Inv. 2, Inv. 3)



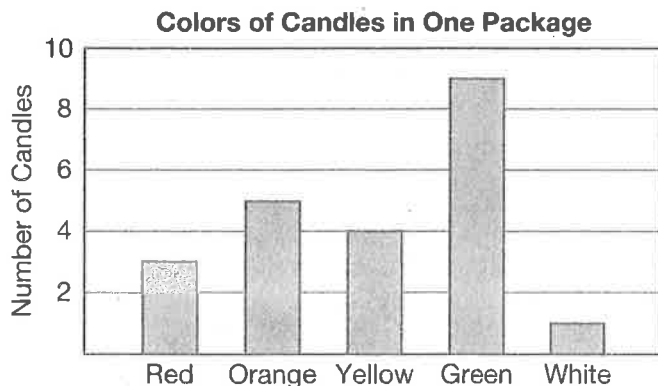
6 in

b. Use a formula to find the area of the square.

\* 28. **Multiple Choice** What type of angle is each angle of a square?  
(23)

- A acute      B right      C obtuse      D straight

\* 29. This bar graph shows the number of colored candles in a package. Use the bar graph to answer each question.  
(Inv. 6)



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Name \_\_\_\_\_

- a. How many red candles were there?
- b. There were how many more green candles than orange candles?

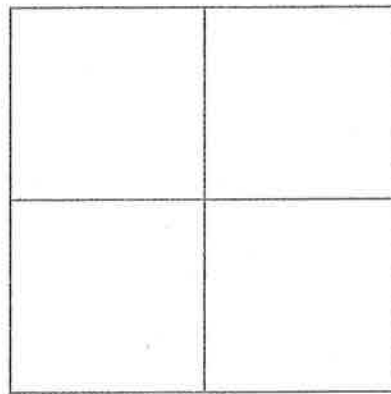
**\*30.** **Model** Draw a number line from 1 to 2, and show the locations of  $1\frac{1}{2}$ , 1.25, and  $1\frac{3}{4}$ .  
(37, 50)

**Early Finishers***Real-World Connection*

A square with 1-inch sides has an area of 1 square inch. A square with 2-inch sides has an area of 4 square inches. Review the squares shown below.



$$1 \times 1 = 1 \text{ square inch}$$



$$2 \times 2 = 4 \text{ square inches}$$

- a. What is the area of a square with sides that are 3 inches long?
- b. What is the area of a square with sides that are 4 inches long?
- c. What is the area of a square with sides that are 5 inches long?
- d. Draw and label each of the squares in parts a-c.