Name _____

Written Practice 42

Intermediate 4, Lesson 42

*1. (Inv. 2, Inv. 3) **Represent** On 1-cm grid paper, draw a square with sides 5 cm long.

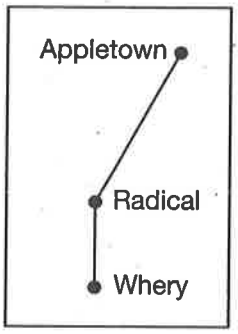
a. What is the perimeter of the square?

b. What is the area of the square?

Formulate Write and solve equations for problems **2** and **3.**

2. (25) Wilbur had sixty-seven grapes. Then he ate some grapes. He had thirty-eight grapes left. How many grapes did Wilbur eat?

3. (11, 14) The distance from Whery to Radical is 42 km. The distance from Whery to Appletown through Radical is 126 km. How far is it from Radical to Appletown?



*4. (27) Raziya arrived home from school at the time shown on the clock and began her homework half an hour later. What time did Raziya begin her homework?

*5. (3, Inv. 3) **Generalize** Write a rule for this sequence and find the next three numbers:

1, 4, 9, 16, 25, 36, 49, ____, ____, ____, ...

*6. (20, 42) a. Round 673 to the nearest hundred.

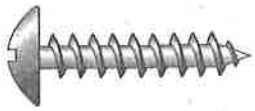
b. Round 673 to the nearest ten.

7. (35) How many squares are shaded?

Name _____

*8. (Inv. 2, 39) a. Estimate Find the length of this screw to the nearest quarter inch.

b. Find the length of this screw to the nearest centimeter.

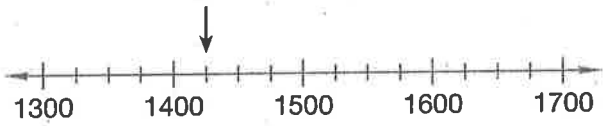


9. (27) Connect Rewrite this addition problem as a multiplication problem:

$$\$2.50 + \$2.50 + \$2.50$$

*10. (23) Conclude Are the line segments in a plus sign parallel or perpendicular?

11. (Inv. 1) Represent To what number is the arrow pointing?



*12. (10) Use the digits 4, 7, and 8 to write an odd number greater than 500. Each digit may be used only once.

*13. (42) 6×80

*14. (42) 7×700

*15. (42) 9×80

*16. (42) 7×600

17. (24)
$$\begin{array}{r} z \\ +\ 338 \\ \hline 507 \end{array}$$

*18. (41)
$$\begin{array}{r} \$4.06 \\ -\ \$2.28 \\ \hline \end{array}$$

*19. (41)
$$\begin{array}{r} w \\ \times\ 6 \\ \hline 42 \end{array}$$

20. (24) $n - 422 = 305$

21. (17) $55 + 555 + 378$

*22. (33) a. Use words to write 5280.

b. Which digit in 5280 is in the tens place?

23. (36) a. Ten nickels are what fraction of a dollar?

b. Write the value of ten nickels using a dollar sign and a decimal point.

*24. (Inv. 4) Compare:

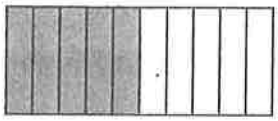
a. $0.5 \bigcirc \frac{1}{2}$

b. $\frac{1}{4} \bigcirc \frac{1}{10}$

Name _____

25. (Inv. 3) What is the sum of three squared and four squared?

***26.** (Inv. 4) **Multiple Choice** Which of these numbers does *not* describe the shaded part of this rectangle?



A $\frac{5}{10}$ **B** $\frac{1}{2}$ **C** 5.0 **D** 0.5

***27.** (Inv. 4) The decimal number 0.25 equals $\frac{1}{4}$. Write 0.25 with words.

***28.** (Inv. 4) Anisa used a stopwatch to time herself as she ran three 50-meter dashes. Here are her times in seconds:

9.12, 8.43, 8.57

Arrange Anisa's times in order from fastest (least time) to slowest (greatest time).

***29.** (Inv. 3, 39) Joleen has six pieces of wood that she wants to fit together to make a picture frame. Two pieces are 8 inches long, two are 6 inches long, and two are 4 inches long. Using four of the six pieces, how many different rectangular frames could Joleen make? What would be the areas of the rectangles formed?

***30.** (42) Each of 4 school buses can carry 52 passengers. What is a reasonable estimate of the total number of passengers the four buses can carry? Explain why your estimate is reasonable.

Early Finishers
Real-World Connection

The zoo's insect house has 35 glass cases. An average of 17 crickets live in 22 of the cases and an average of 15 grasshoppers live in 13 of the cases. What is a reasonable estimate of the total number of insects that live in the glass cases at the zoo? Explain why your answer is reasonable.