

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

# Practice & Problem Solving

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In 13–16, explain how to get the variable alone in each equation.

13.  $8y = 56$

14.  $t \div 15 = 3$

15.  $u \div 8 = 12$

16.  $31y = 310$

In 17–20, solve each equation.

17.  $d \div 2 = 108$

18.  $7,200 = 800s$

19.  $x \div 3 = 294$

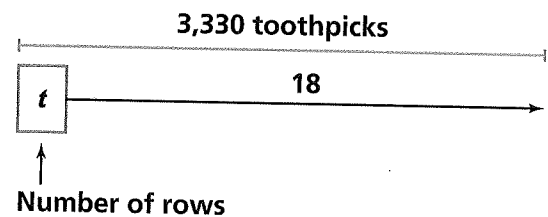
20.  $99 = 3x$

In 21 and 22, write a division equation and a multiplication equation to represent each problem.

21. Lolo typed 1,125 words in 15 minutes. Let  $w$  represent the number of words typed each minute. If Lolo typed the same number of words each minute, how many words did she type in 1 minute?

22. In 12 weeks Felipé earns \$4,500 doing yard work. He earns the same amount each week. Let  $m$  stand for the amount earned each week. How much does Felipé make in 1 week?

23. **Model with Math** Abel has 3,330 toothpicks. He wants to use them all to make a floor mat with 18 equal rows. Use the bar diagram to write a division equation. Then solve the equation to find how many toothpicks Abel should use in each row.



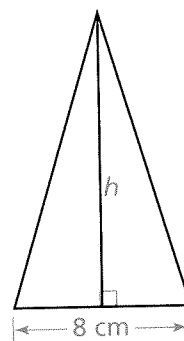
24. **Model with Math** Emily took an airplane trip. Her plane flew an equal number of miles each hour. Let  $m$  stand for the miles flown each hour. Write an equation to represent one way you can find how many miles Emily's plane flew each hour.



In 25 and 26, use the triangle.

25. The area of the isosceles triangle is 44 square centimeters. Use the equation  $\frac{1}{2}(8h) = 44$  to find the height of the triangle.

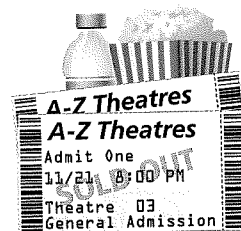
26. If the perimeter of the triangle is 32 centimeters, what is the length of each of the two sides? Write and solve an equation.



27. Kelsey and her 4 sisters spent an equal amount of time cleaning their home. Their parents added their times. They found that each of the 5 girls spent 3 hours cleaning. Let  $c$  be the total number of hours the girls spent cleaning. Write and solve a division equation to find the total number of hours the girls spent cleaning.

28. **Higher Order Thinking** Veronica traveled 562 miles. She drove 85 miles every day. On the last day of her trip she only drove 52 miles. Write and solve an equation to find the number of days Veronica traveled. Explain each step of your problem-solving strategy.

29. **Generalize** A movie theater sells 11,550 tickets for 50 sold-out showings of the same movie. Write a division equation that you can use to find the number of people who bought tickets for each showing. Use what you know about dividing with larger numbers to solve the equation.



## Assessment Practice

30. In February, Calvin's school used 4,920 pounds of rock salt to melt ice on its sidewalks. One bag contains 40 pounds of rock salt.

Choose **Yes** or **No** to tell which of the following equations can be used to find how many bags of rock salt,  $b$ , Calvin's school used in February.

30a.  $4,920b = 40$        Yes       No

30c.  $4,920 \div 40 = b$        Yes       No

30b.  $40b = 4,920$        Yes       No

30d.  $4,920 \div b = 40$        Yes       No

