

Name: _____



PRACTICE



TUTORIAL

5-1 Additional Practice

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1. Look at the paper to the right.
 - a. Write an equation to represent the description.
 - b. Describe a real-world situation the equation could represent.

Eight more than four times
a number is 28.

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2. **Use Structure** Jenna wants to buy a new tablet that costs \$242. She already has \$62 and plans to save \$12 per week. If w represents the number of weeks until Jenna has enough money to buy the tablet, write an equation that can be used to find the value of w . © MP.7

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3. The height of a certain banner is equal to one third of its length. If the banner is 5 feet tall, write an equation that can be used to find the banner's length, L , in feet.

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4. Cameron buys 2.45 pounds of apples and 1.65 pounds of pears. Apples and pears each cost c dollars per pound. If the total cost after using the coupon shown is \$4.12, write an equation that can be used to find the value of c .

75¢ off
entire purchase

-
5. Mike buys four equally priced DVD's online. Each DVD costs the same amount. With a \$5.98 shipping charge included, the total cost came to \$79.94. Write a word equation you could use to find the cost of each DVD.

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6. A jar contains 18 strawberry-, 24 cherry-, and 19 lime-flavored candies. The rest of the candies are chocolate. There are 82 candies in all.

If n represents the number of chocolates in the jar, what equation could you use to find n ?



7. A rectangle has a length of $3\frac{7}{8}$ inches and an area of $6\frac{15}{16}$ square inches. Write an equation that represents the area of the rectangle in terms of its length and width, w .

Faris wrote this equation to represent a real-world situation.

8. **Reasoning** Write a situation that could go with this equation. © MP.2

$$6a - 16 = b$$

9. A chef prepares and evenly divides s ounces of beef stock into 3 smaller pans. The chef uses 8 ounces of beef stock from one of the smaller pans, and 34 ounces of beef stock remain in that smaller pan. Write an equation that correctly represents the number of ounces of beef stock, s , that the chef initially prepares.

10. At a wedding reception, an equal number of guests were seated at each of 12 large tables, and 8 members of the wedding party were seated at the main table. The total number of people at the reception, including the bride and groom, was 128. If n represents the number of people seated at each of the large tables, what equation could you use to find the value of n ?

11. **Higher Order Thinking** Write a description that represents the equation $7(a + 2) = 91$.

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12. An orchard contains 132 trees, which are either apple or pear trees. There are 24 apple trees in each of 4 rows.

PART A

If p represents the number of pear trees in the orchard, what equation could you use to find the value of p ?

PART B

Write another real-world situation that the equation from Part A could represent.

