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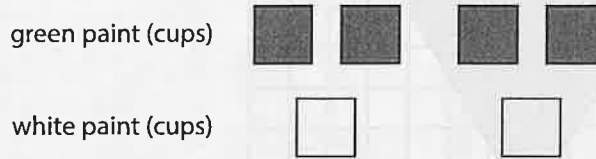
Unit 2, Lesson 2
Practice Problems

1. Here is a diagram that describes the cups of green and white paint in a mixture.

    green paint (cups)   ■ ■   ■ ■

    white paint (cups)   □   □

    Select **all** the statements that accurately describe this diagram.

    A. The ratio of cups of white paint to cups of green paint is 2 to 4.

    B. For every cup of green paint, there are two cups of white paint.

    C. The ratio of cups of green paint to cups of white paint is $4 : 2$.

    D. For every cup of white paint, there are two cups of green paint.

    E. The ratio of cups of green paint to cups of white paint is $2 : 4$.

2. To make a snack mix, combine 2 cups of raisins with 4 cups of pretzels and 6 cups of almonds.

    a. Create a diagram to represent the quantities of each ingredient in this recipe.

    b. Use your diagram to complete each sentence.

        i. The ratio of _____ to _____ to
            _____ is _____ : _____ : _____.

        ii. There are _____ cups of pretzels for every cup of raisins.

        iii. There are _____ cups of almonds for every cup of raisins.

3. a. A square is 3 inches by 3 inches. What is its area?

    b. A square has a side length of 5 feet. What is its area?

    c. The area of a square is 36 square centimeters. What is the length of each side of the square?
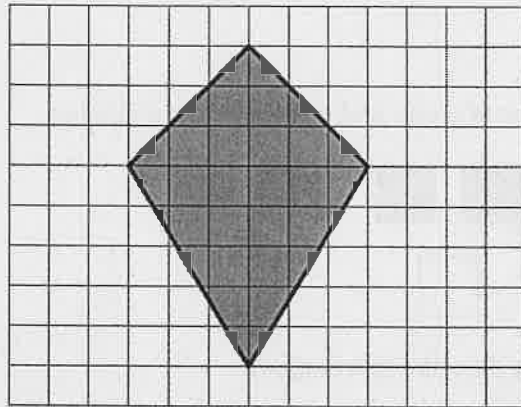
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4. Find the area of this quadrilateral. Explain or show your strategy.

5. Complete each equation with a number that makes it true.

a. $\frac{1}{8} \cdot 8 =$ _____

b. $\frac{3}{8} \cdot 8 =$ _____

c. $\frac{1}{8} \cdot 7 =$ _____

d. $\frac{3}{8} \cdot 7 =$ _____