

NAME _____

DATE _____

PERIOD _____

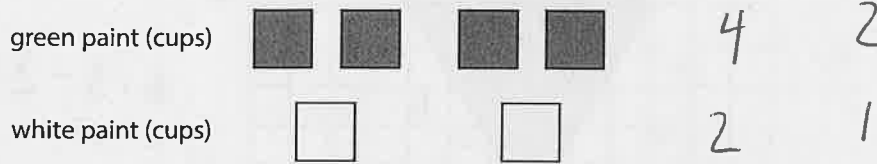
Unit 2, Lesson 2

Practice Problems

KEY

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



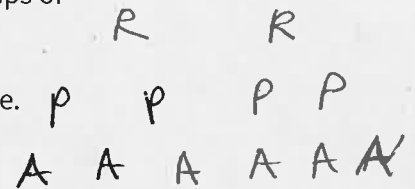
Select all the statements that accurately describe this diagram.

- 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.

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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.

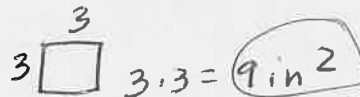


b. Use your diagram to complete each sentence.

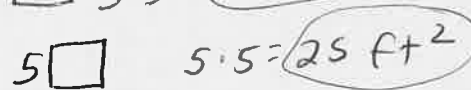
- i. The ratio of raisins to pretzels to almonds is 2 : 4 : 6.
- ii. There are 2 cups of pretzels for every cup of raisins.
- iii. There are 3 cups of almonds for every cup of raisins.

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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?



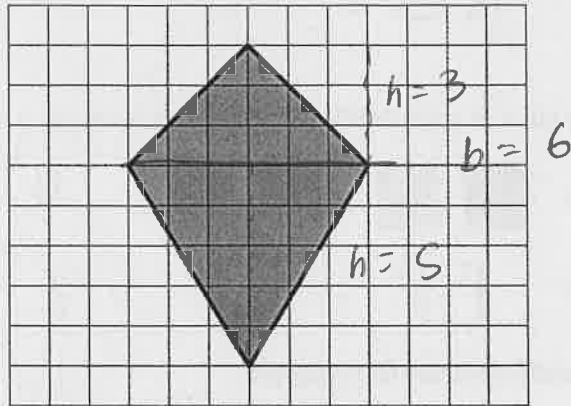
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4. Find the area of this quadrilateral. Explain or show your strategy.



$$6 \cdot 3 \div 2 = 9 \text{ un}^2$$

$$6 \cdot 5 \div 2 = 15 \text{ un}^2$$

$$\begin{array}{r} 15 \\ + 9 \\ \hline 24 \text{ un}^2 \end{array}$$

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

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

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

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

d. $\frac{3}{8} \cdot 7 = \underline{\frac{21}{8}}$ or $2 \frac{5}{8}$

Bonus