Assignment

LESSON 1: Rocket Strips

Write

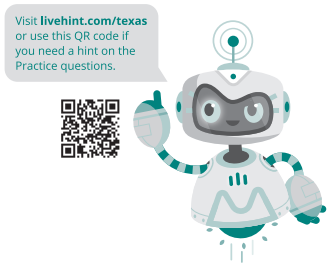
Describe how to use strip diagrams to compare two fractions with different denominators.

Remember

Fractions that represent the same part-to-whole relationship are equivalent fractions. With strip diagrams, equivalent fractions have folds that line up with each other.

Practice

Divide the strip diagram into equal parts to represent the fractional part provided. Then, shade the strip diagram to represent the given fraction.



1. tenths; $\frac{4}{10}$

2. sixths; $\frac{2}{6}$

3. eighths; $\frac{6}{8}$

Divide the strip diagrams into equal parts and shade to show that the given fractions are equivalent.

4. Show that $\frac{3}{4}$ is equivalent to $\frac{6}{8}$.

5. Show that $\frac{1}{4}$ is equivalent to $\frac{3}{12}$.

Divide the strip diagrams into equal parts and shade to determine the equivalent fraction.

6. How many 12ths are equivalent to $\frac{3}{4}$?

7. How many 10ths are equivalent to $\frac{1}{5}$?

Stretch

Suppose you were on one side of the classroom with your back to the wall and you took one giant step toward the opposite wall. The second step you take has to be $\frac{1}{2}$ the distance of the first step. The third step you take has to be $\frac{1}{2}$ the distance of the second step. The fourth step you take has to be $\frac{1}{2}$ the distance of the third step. (And so on, and so on.)

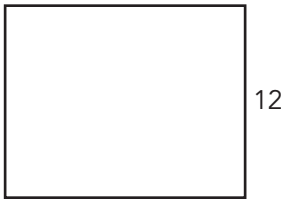
1. Will you ever reach the opposite wall of the classroom? Explain your reasoning.

2. What does this situation have to do with the paper folding activity?

Review

1. Determine the area of each rectangle with the given dimensions.

a.



b.

2. Use the Distributive Property to rewrite each numeric expression as a sum.

a. $5(9 + 11)$

b. $15(3 + 5)$

3. Determine the prime factorization of each number.

a. 28

b. 52