How do you decompose fractions?

$$\frac{7}{8}$$
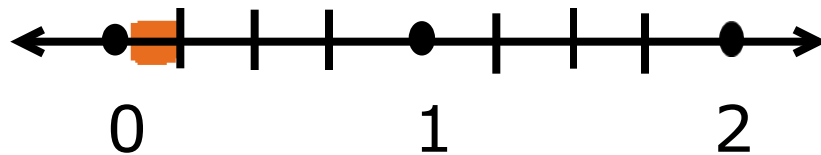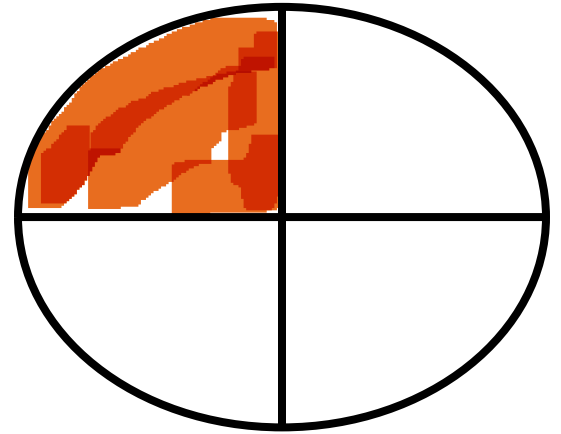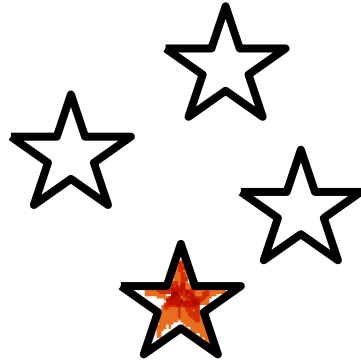
In this lesson you will learn how to decompose a fraction by breaking up the fraction into a sum of fractions.

Fractions can be shown in different ways.
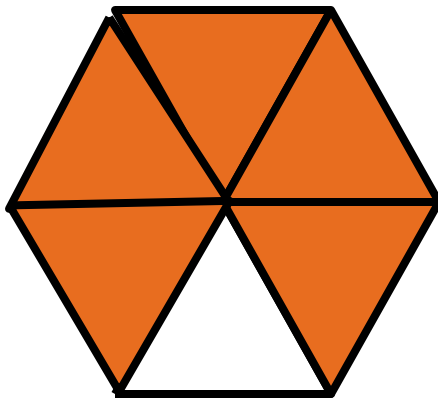
$$\frac{1}{4}$$

$$\frac{1}{4}$$

← **Numerator:** *How many parts you have*

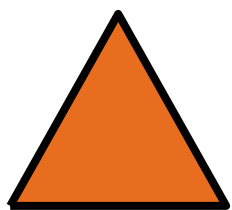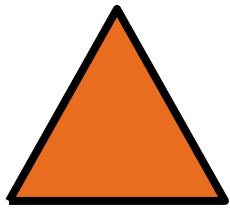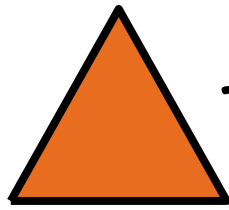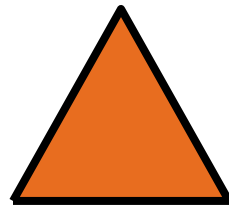← **Denominator:** *How many equal parts make up a whole*
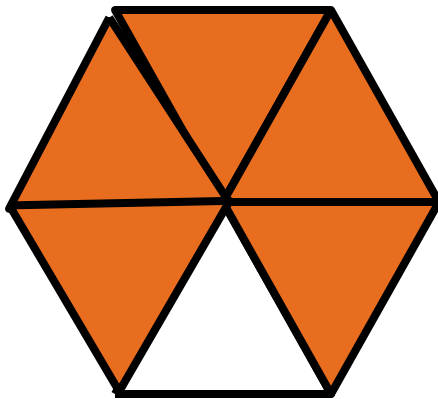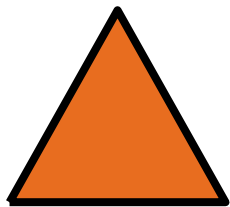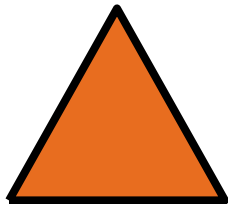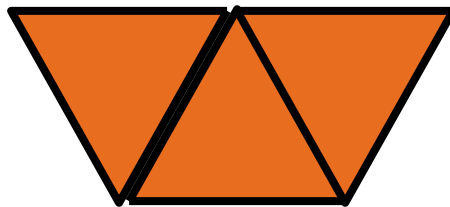
LEARN ZILLION

$$\frac{5}{6}$$

$$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{5}{6}$$

$$\frac{5}{6}$$

$$\frac{1}{6} \quad + \quad \frac{1}{6} \quad + \quad \frac{3}{6} \quad = \quad \frac{5}{6}$$

$$= \quad \frac{5}{6}$$

LEARNZILLION

Using your manipulatives, show another way to decompose the fraction $\frac{5}{6}$.

Write the equation on your white board.

Using your manipulatives, show another way to decompose the fraction $\frac{5}{6}$.

Write the equation on your white board.

Discuss your equation with your classmates. How many different equations did you make?

LEARNZILLION

$$\frac{7}{8}$$

$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{7}{8}$$

$$\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$$

LEARNZILLION

Using your manipulatives, show another way to decompose the fraction $\frac{7}{8}$.
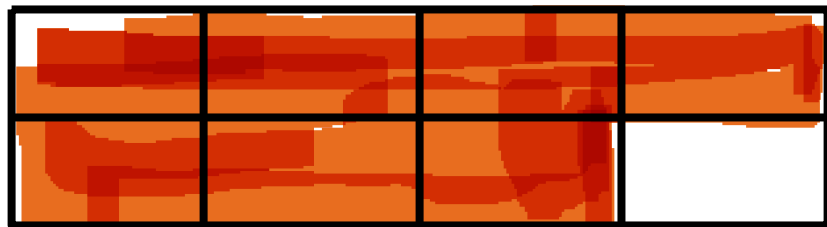
Write the equation on your white board.

Using your manipulatives, show another way to decompose the fraction $\dfrac{7}{8}$.

Write the equation on your white board.

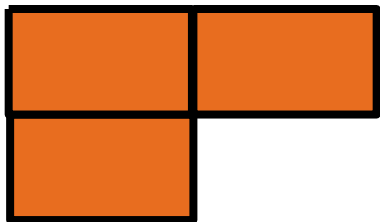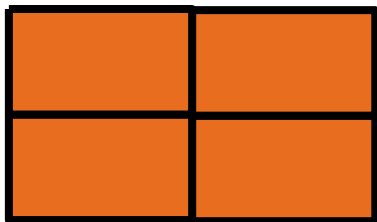Discuss your equation with your classmates. How many different equations did you make?

LEARNZILLION

Which fraction does this decomposition represent? $\dfrac{1}{9} + \dfrac{1}{9} + \dfrac{1}{9}$

LEARN ZILLION

Which fraction does this decomposition represent? $\dfrac{4}{9} + \dfrac{1}{9} + \dfrac{1}{9} + \dfrac{1}{9} =$

In this lesson you learned how to decompose a fraction by breaking up the fraction into a sum of fractions.