



Name: _____

Date: _____

How can I represent division with a fraction?

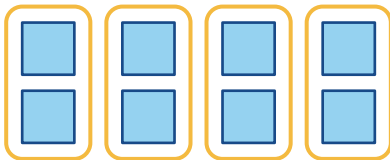
Review

Fractions as Division

Write the division expression as a fraction and find the quotient.

$$8 \div 4$$

Divide 8 into 4 equal groups.



Write the division as a fraction.

$$\frac{8}{4} = \boxed{2}$$

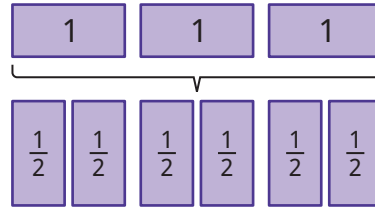
Which number goes in the numerator?

8 divided by 4 is the same as the fraction $\frac{8}{4}$. Both equal 2.

Dividing Whole Numbers

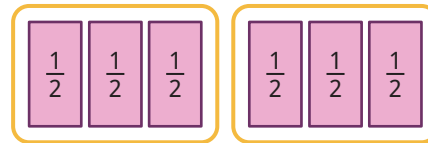
Divide: $3 \div 2$

Split each whole into 2 parts.



3 halves is the same as 2 halves plus 1 half, or 1 whole plus 1 half.

Make 2 equal groups.



$$3 \div 2 = \frac{3}{2} = \boxed{1\frac{1}{2}}$$

3 divided into 2 equal parts equals $1\frac{1}{2}$ for each part.

Try It

Write the division problem represented by the fraction.

$$\frac{2}{3}$$



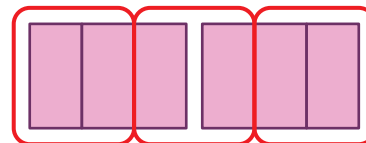
The numerator tells what number is being divided into smaller parts.

$$\boxed{2} \div \boxed{3}$$

A fraction represents division of the numerator by the denominator.

Three friends share two pizzas. How much pizza does each friend get?

Divide 2 wholes into thirds.



Draw circles to make 3 equal groups. See model.

There are 2 thirds in each group.

Each friend gets $\frac{2}{3}$ of a pizza.

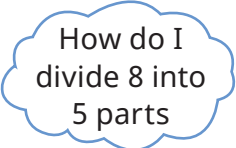


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Practice

Divide to solve each problem and complete each sentence. Show your work.

Problem		Show Your Work	
Anya has 8 cups of trail mix to divide among 5 bowls. She wants to pour the same amount of trail mix into each bowl. How many cups of trail mix will she pour into each bowl?		$8 \div 5 = \frac{8}{5}$ 	
Solution	Each bowl will get $\frac{8}{5}$ or $1\frac{3}{5}$ cups of trail mix.		
Diego has 6 cups of orange juice and 5 glasses. He wants to pour the same amount into each glass. How many cups of orange juice will he pour into each glass?		$6 \div 5 = \frac{6}{5} = 1\frac{1}{5}$	
Solution	He will pour $\frac{6}{5}$ or $1\frac{1}{5}$ cups into each glass.		
Ben uses 5 gallons of paint to paint 3 rooms in his house. He uses the same amount of paint in each room. How much paint does Ben use in each room?		$5 \div 3 = \frac{5}{3} = 1\frac{2}{3}$	
Solution	Ben uses $\frac{5}{3}$ or $1\frac{2}{3}$ gallons of paint in each room.		
Scarlett runs 7 miles in 8 days. If she runs the same distance each day, how far does she run each day?		$7 \div 8 = \frac{7}{8}$	
Solution	She runs $\frac{7}{8}$ mile each day.		



How are fractions and mixed numbers used to solve division problems?

A division problem can be represented as a fraction. When whole numbers are divided, the answer may result in a fraction or a mixed number.