Get Ready

Identify Factors

Factors are numbers that are multiplied together to determine a product.
The factors of 10 are 1, 2, 5, and 10. The factors multiply to give 10.

$1 \times 10 = 10$ $2 \times 5 = 10$

10 can be divided evenly by each factor.

$10 \div 1 = 10$ $10 \div 2 = 5$ $10 \div 5 = 2$ $10 \div 10 = 1$

1. List the factors of each number.

a) 6 **b)** 10 **c)** 24

2. Identify five numbers that have 3 as a factor.

3. Which of the following numbers have 2 as a factor? How do you know?

100 301 456 294 279 193

Represent Fractions

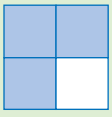
A **fraction** is a number that represents a part of a whole or a part of a group.

$\frac{3}{8}$ means 3 parts out of a group of 8 equal parts.

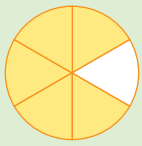
$\frac{3}{8}$ ← The **numerator** is the top number.
$\frac{3}{8}$ ← The **denominator** is the bottom number.

4. Write the fraction shaded in each diagram.

a)



b)



c)

5. Draw a diagram to represent each fraction.

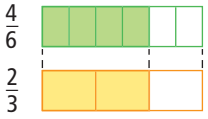
a) $\frac{1}{4}$ **b)** $\frac{1}{3}$ **c)** $\frac{2}{5}$ **d)** $\frac{5}{12}$

The denominator tells the number of equal parts the diagram should be divided into.

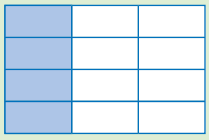
Represent Equivalent Fractions

Equivalent fractions are fractions that represent the same part of a whole or group.

These fraction strips show that $\frac{4}{6}$ and $\frac{2}{3}$ are equivalent fractions.



6. Identify the fraction shaded in each diagram. Draw a diagram to show an equivalent fraction for each.

a) 

b) 

c) 

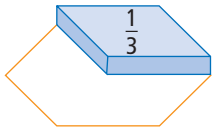
7. Draw a diagram of each fraction. Then draw an equivalent fraction.

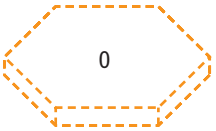
a) $\frac{1}{2}$ **b)** $\frac{2}{6}$ **c)** $\frac{1}{5}$

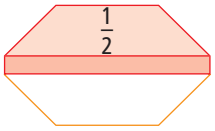
d) $\frac{3}{4}$ **e)** $\frac{8}{10}$ **f)** $\frac{4}{5}$

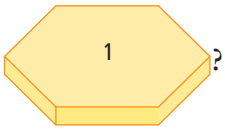
Estimate Fractions

You can use pattern blocks, fractions strips, or number lines to help estimate fractions. Compare fractions to 0, $\frac{1}{2}$, or 1.

Is 

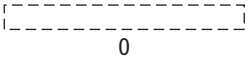
closest to 

or 

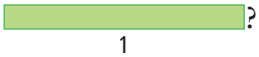
or 

?

Is 

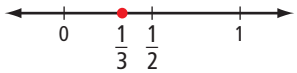
closest to 

or 

or 

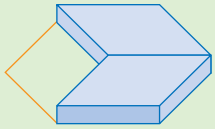
?

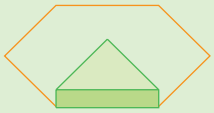
Is $\frac{1}{3}$ closest to 0, $\frac{1}{2}$, or 1?

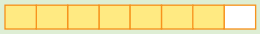


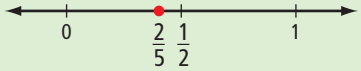
$\frac{1}{3}$ is closest to $\frac{1}{2}$.

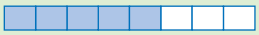
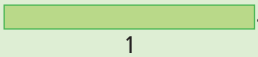
8. Estimate whether the following fractions are closest to 0, $\frac{1}{2}$, or 1.

a) 

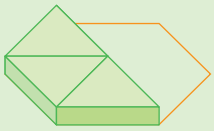
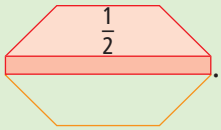
b) 

c) 

d) 

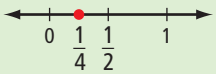
9. a) Ross estimates that  is closest to 

. Do you agree? Explain.

b) Dana estimates that  is closest to 

. Do you agree? Explain.

c) Tina estimates that $\frac{1}{4}$ is closest to 0, using the number line shown.



Is there another possible estimate? Explain.