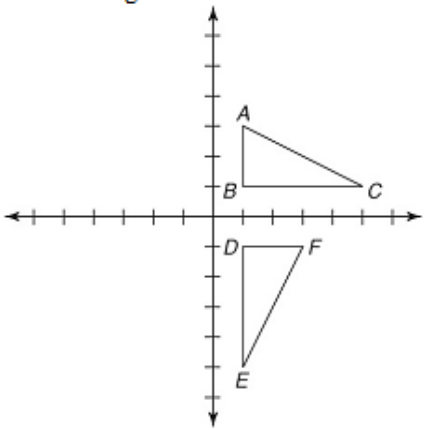
# Warm-UP

1. How has figure $DEF$ been transformed to form figure $ABC$?




a. reflection across $x$-axis

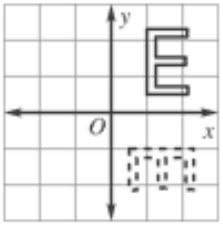
b. 180° rotation around $(0,0)$

c. 90° rotation around $(0,0)$

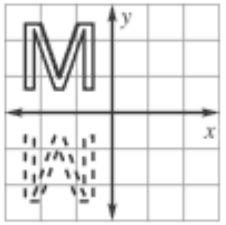
d. translation 2 units down

2. Which diagram shows a reflection in the $y$-axis?

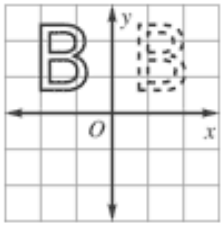
a.



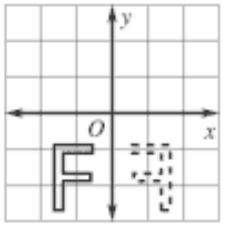

c.




b.

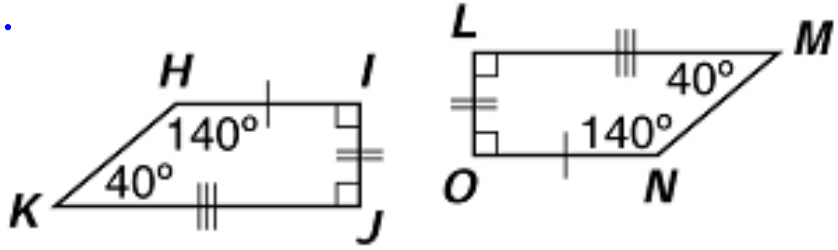



d.



Identify the correct congruence statement for the pair of polygons shown.

3.




a. trapezoid HIJK ≅ trapezoid IJLO

b. trapezoid KJIH ≅ trapezoid MLON

c. trapezoid IJKH ≅ trapezoid KHNM

d. trapezoid JIHK ≅ trapezoid JIML

4.

A figure is dilated by a scale factor of 3. If the origin is the center of dilation, what is the image of a vertex located at $(3,4)$?

a. $\left(1,1\frac{1}{2}\right)$

b. $(3,12)$

c. $(9,4)$

d. $(9,12)$

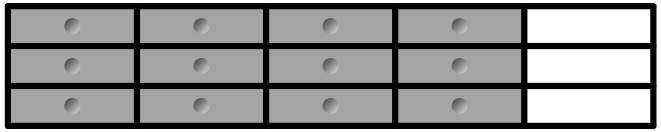
# How can you write Rational numbers in equivalent forms?

**Rational Numbers**

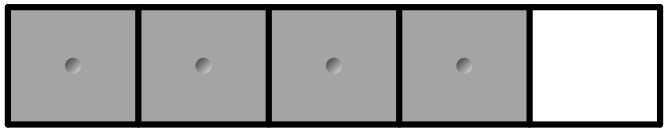
any number that can be written as a fraction (as long as the denominatoris not zero)

**Equivalent**

having the same value



Fraction



Fraction

How do you know these two fractions are equivalent?

How do we find the decimal equivalent?

# Simplifying Fractions:

Examples:

$\frac{3}{8}$

$\frac{-12}{14}$

$\frac{49}{112}$

Writing Decimals as Fractions:

# 1.0000

**Write each decimal as a fraction in simplest form.**

A 0.825

# Writing Decimals as Fractions:

Examples:

0.6

0.25

0.525

2.08

B $\frac{1}{3}$

# Writing Fractions as Decimals:

Examples:

$\frac{5}{3}$

$-1\frac{7}{8}$

$\frac{4}{11}$

**Write each fraction as a decimal.**

**2.** $\frac{2}{3}$ _____

**4.** $\frac{23}{24}$ _____

**6.** $\frac{18}{25}$ _____

**Write each decimal as a fraction in simplest form.**

**8.** 0.56 _____

**10.** 0.93 _____

**12.** 6.02 _____

## Compare. Write a >, <, or =

< less than
> greater than
= equal to

14. $\frac{4}{7} \bigcirc \frac{3}{8}$

16. $.35 \bigcirc \frac{1}{3}$

18. The weight of an object on the moon is 1/6 its weight on Earth. Write 1/6 as a decimal.

20. Oxygen makes up about 3/5 of the human body. Write 3/5 as a decimal.

22. On a test, Sam answered 52 out of 60 questions correctly. What fraction of Sam's answers were correct? What decimal?

**Write each fraction as a decimal.**

**2.** $\frac{2}{3}$ $.\overline{6}$

**4.** $\frac{23}{24}$ $.958\overline{3}$

**6.** $\frac{18}{25}$ .72

**Write each decimal as a fraction in simplest form.**

**8.** 0.56 $\frac{14}{25}$

**10.** 0.93 $\frac{93}{100}$

**12.** 6.02 $6\frac{1}{50}$

## Compare. Write a >, <, or =

< less than
> greater than
= equal to

14. $\frac{4}{7} > \frac{3}{8}$

16. $.35 > \frac{1}{3}$

18. The weight of an object on the moon is 1/6 its weight on Earth. Write 1/6 as a decimal. $.1\overline{6}$

20. Oxygen makes up about 3/5 of the human body. Write 3/5 as a decimal. .6

22. On a test, Sam answered 52 out of 60 questions correctly. What fraction of Sam's answers were correct? What decimal?

13/15 $.8\overline{6}$