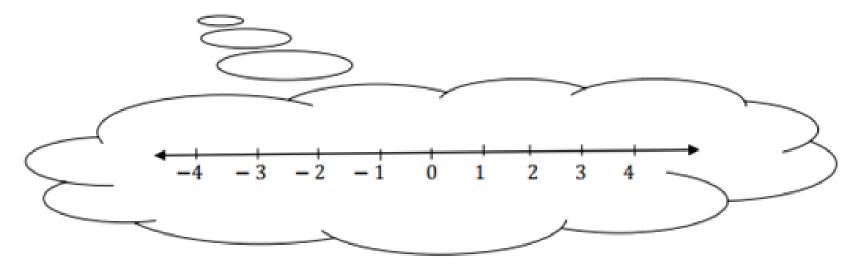
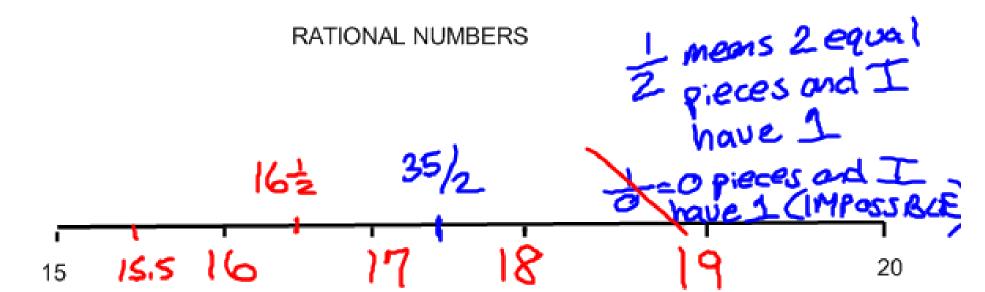
Integers, I, is a set of numbers that include positive and negative numbers and zero.

Imagine a number line



The set of integers does not include decimals or fractions.

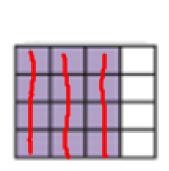


A RATIONAL NUMBER IS: any number that can be written as a fraction (as long as the bottom of the fraction isn't 0) this includes all decimals numbers that end or have a repeating pattern.

ARE THESE NUMBERS RATIONAL?

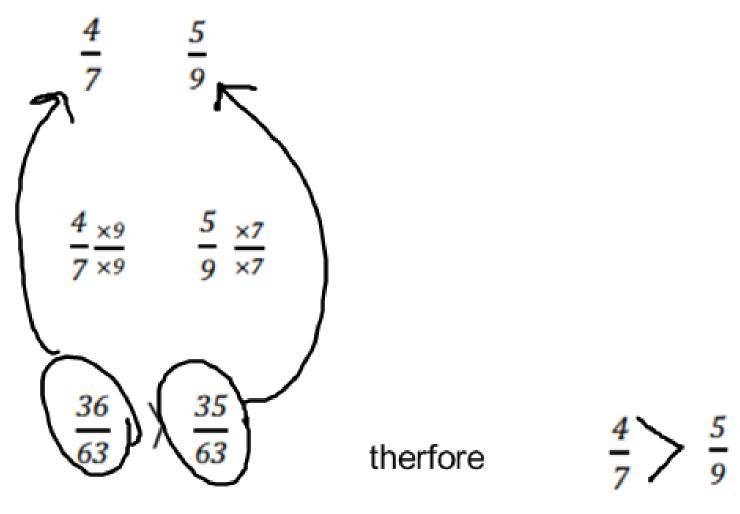
$$\frac{3}{4} = \frac{3}{3} = \frac{7}{0} \times \frac{1}{24} \times \frac{3}{0} = \frac{7}{0} \times \frac{1}{24} \times \frac{3}{0} \times \frac{3}$$

## **EQUIVALENT FRACTIONS**



$$\frac{12}{16} - \frac{3}{4} \times 3 = \frac{9^{1} \times 2}{12 \times 2} = \frac{18}{24}$$

Use > , < , or = to determine which rational number is greater, where possible.



.

$$\frac{-3}{8} > \frac{-5}{8}$$

$$\frac{2}{7}$$
  $\frac{2}{9}$ 

## Changing a decimal to a fraction

use the place value of the final decimal place to determine the bottom of the fraction

repeating decimals have a bottom number one less than the place value.

Make sare to use that bottom number to help determine the top number.

-0.6 0.75 0.256  

$$\frac{-6}{9} = 0.757575.... 256$$

$$\frac{75}{99} = \frac{25}{999}$$
Remember  $2.3 = 23$  because  $2 = \frac{20}{10}$  and  $0.3 = 3$   
 $2.\overline{3} = 2 + 0.\overline{3} = \frac{9}{9} + \frac{9}{9} + \frac{3}{9}$ 

HW: worksheet #1,6,7,8,10,11