

September 10, 2018

Warm-Up



Identify the rational numbers below:

a) $\frac{-1}{4} = -0.25$

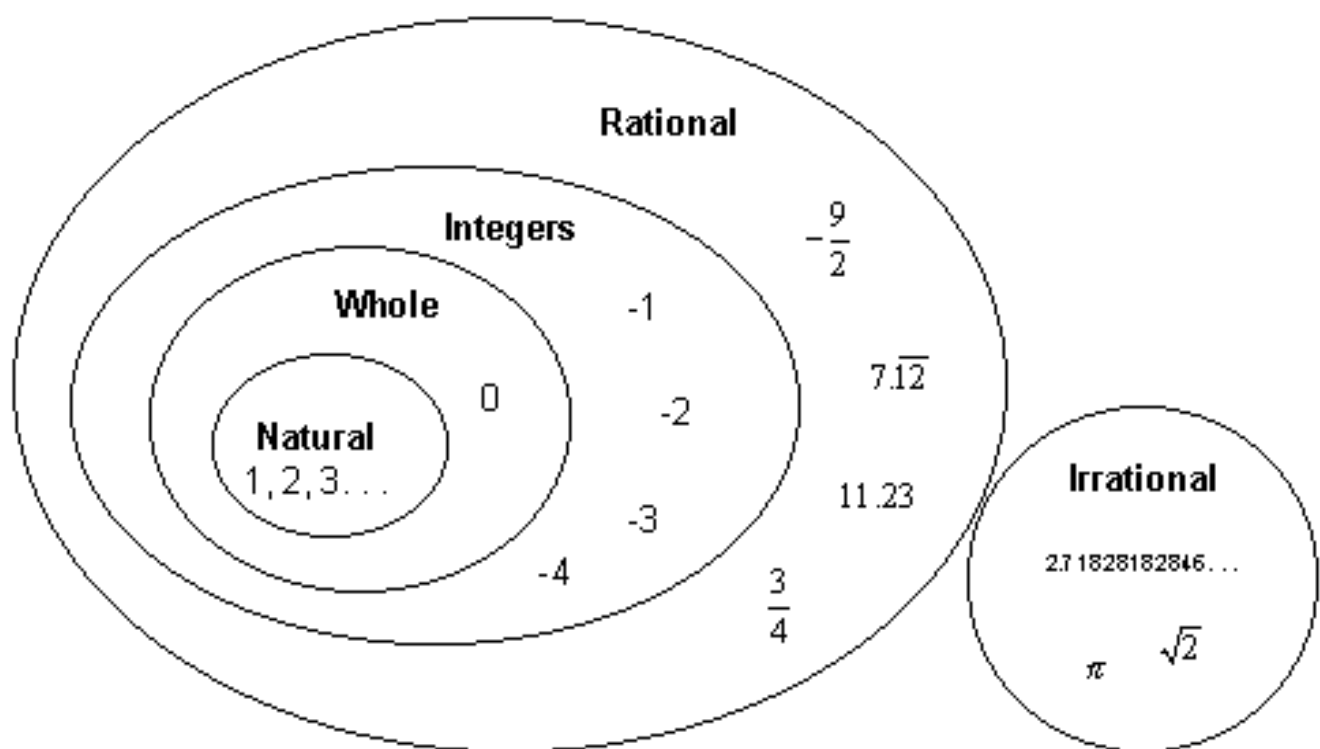
b) $\sqrt{9} = 3$

c) $\frac{-4}{-9} = 0.\overline{4}$

d) ~~$\sqrt{75}$~~
8.66025...

e) $\pi = 3.14\dots$

4.222...



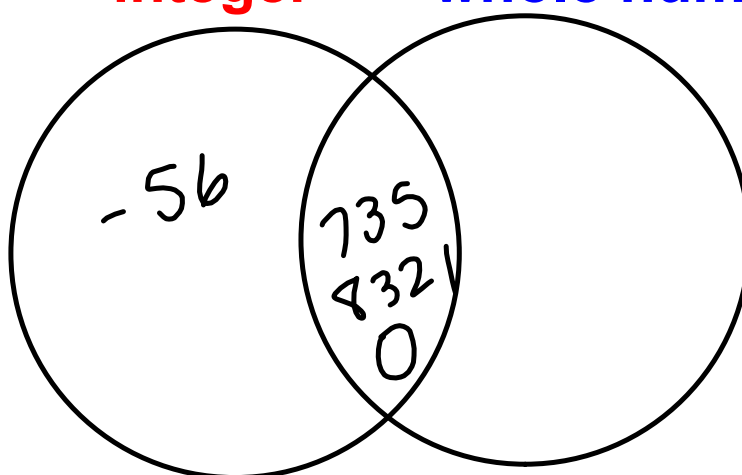


	Stops of Repeats Rational	Irrational
A. 1.5	✓	
B. $\frac{-1}{7} = -0.1428\dots$		✓
C. 75	✓	
D. -7	✓	
E. $\sqrt{3}$ 1.732...		✓
F. 0.4444...	✓	
G. 0.721436217	✓	

-0.462 -56 735 0.326 8 321 0

integer

whole number



Use $<$, $>$ or $=$ to compare...show any work!

opens to larger #

$$\text{a) } \frac{4}{7} > \frac{5}{9}$$

$$0.5714 \quad 0.555$$

$$\text{b) } \frac{-3}{8} > \frac{-5}{8}$$

$$-0.375 \quad -0.625$$

$$\text{c) } \frac{2}{7} > \frac{2}{9}$$

$$0.285 \quad 0.222$$

$$\text{d) } \frac{-2}{7} < \frac{-2}{9}$$

$$-0.285 \quad -0.222$$

$$\text{e) } \frac{-3}{4} \quad \frac{3}{4}$$

$$\text{f) } \frac{-10}{4} \quad -2.8$$

Use Your
Calculator to
determine
the value of each
RATIONAL
Number

A. $\frac{-2}{5}$
 $= -0.4$

B. $\frac{2}{-5}$
 -0.4

C. $-\frac{2}{5}$
 -0.4

What did you notice?



Compare the following:

a) $\frac{-6}{3}$

-2

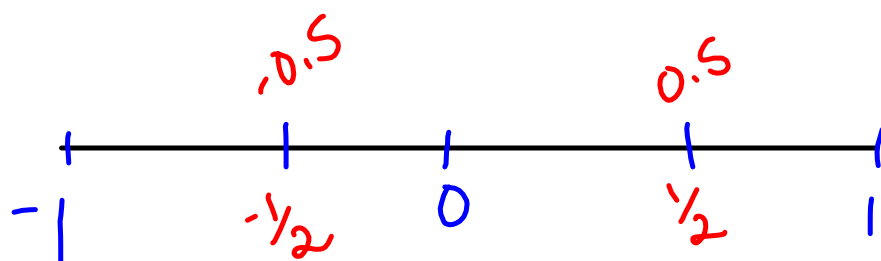
b) $\frac{6}{-3}$

-2

c) $-\frac{6}{3}$

-2

1. How are positive fractions and their opposite RELATED on a number line? [Draw a number line to help]



* Both are equal distance from zero *

Write with a positive denominator:

$$a) \frac{-4}{6}$$

DONE

$$b) -\frac{4}{3}$$
$$-\frac{4}{3}$$

$$\frac{4}{-7}$$
$$-\frac{4}{7}$$

Which of the following numbers
are equal to $-\frac{4}{5}$?

$$\cancel{\frac{4}{5}}, \quad \cancel{-\frac{5}{4}}, \quad \frac{-4}{5}, \quad \cancel{\frac{-4}{-5}}, \quad \frac{8}{10}$$

Can you order
the numbers
from least to
greatest.

0.35, 2.5, -0.6, 1.7, -3.2, -0.6

-3.2, -0.6, -0.6, 0.35, 1.7, 2.5

0.35
2.5
1.7

~~0.6~~
~~3.2~~
~~0.6~~

Put in descending order [show any work!]

Greatest \rightarrow least

$\frac{-3}{4}$, ^{-0.75} 0.5, -1.8, -5, $\frac{7}{3}$, ^{2.33} 2, $-3.\bar{3}$, $1\frac{3}{4}$ ^{1.75}

$\frac{7}{3} > 2, 1\frac{3}{4}, 0.5, -\frac{3}{4}, -1.8, -3.\bar{3}, -5$

~~$\frac{-3}{4}$~~
~~0.5~~
~~-1.8~~
~~-5~~
 ~~$-3.\bar{3}$~~
 ~~$1\frac{3}{4}$~~

Identify a decimal between each pair of rational numbers.

a) $\frac{-1}{2}$ and $\frac{-1}{4}$ \longrightarrow

-0.50 -0.25 -0.35 -0.42 -0.48 -0.499

b) -0.25 and -0.26 \longrightarrow

-0.250 -0.260 -0.252

-0.259