

September 15, 2011

Warm-up:

Simplify completely.

$$\begin{aligned} 1. \quad & 5 - 2(4 + 8 \div 2) \\ & = 5 - 2(4 + 4) \\ & = 5 - 2 \cdot 8 \\ & = 5 - 16 \\ & = -11 \end{aligned}$$

$$\begin{aligned} 2. \quad & (3^2 \cdot 4) + 5 \\ & = (9 \cdot 4) + 5 \\ & = 36 + 5 \\ & = 41 \end{aligned}$$

$$\begin{aligned} 3. \quad & (20 - 5 + 2) - 3 \cdot 4 \\ & = (15 + 2) - 12 \\ & = 17 - 12 \\ & = 5 \end{aligned}$$

Get out Homework

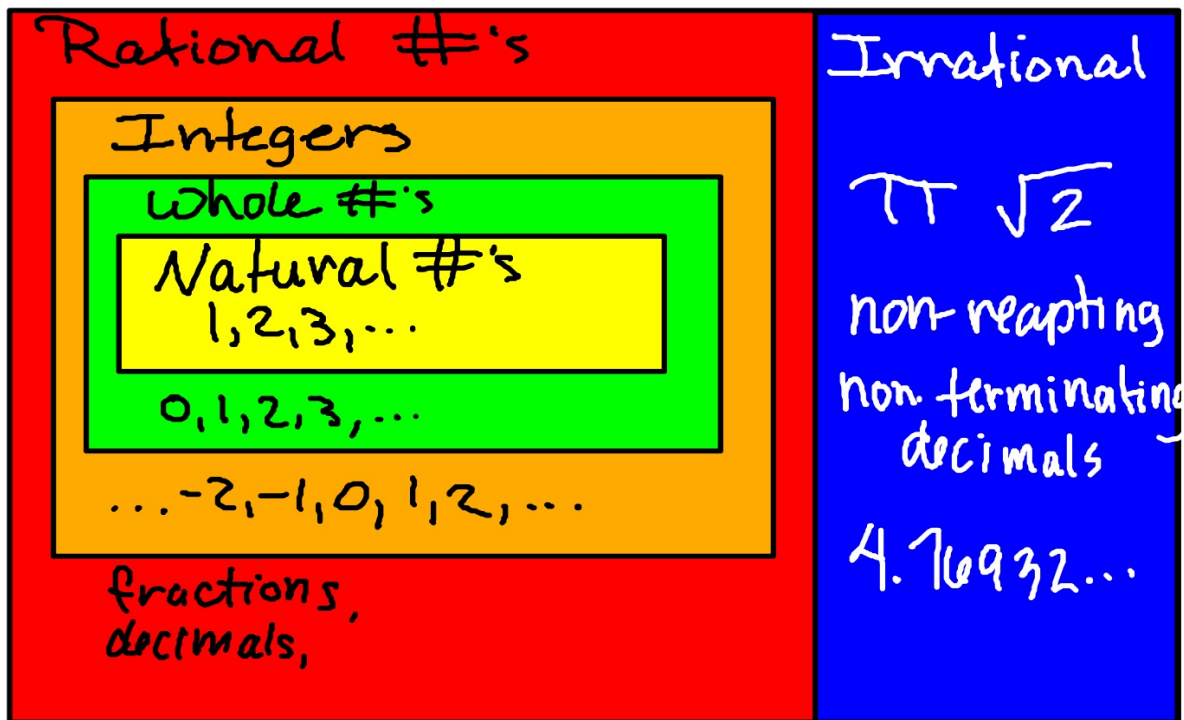
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#: 1-33

all

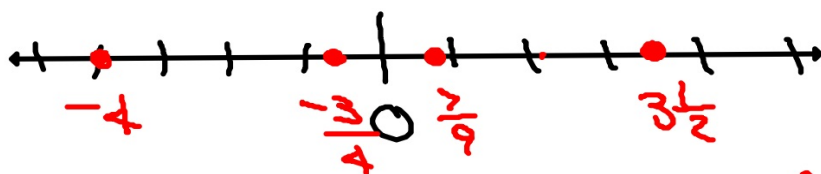
9/14 - Real Numbers and Absolutely Value

What are "Real Numbers?"



Plot these numbers on a number line.

$$-4 \quad 3\frac{1}{2} \quad \frac{7}{9} \quad -\frac{3}{4}$$



#'s to the right are bigger

Compare using $<$, $>$ or $=$

Less than *Greater than*

$$-1 < 4$$

$$-5 > -6$$

$$0 > -2$$

$$-\frac{1}{2} < -\frac{1}{3}$$

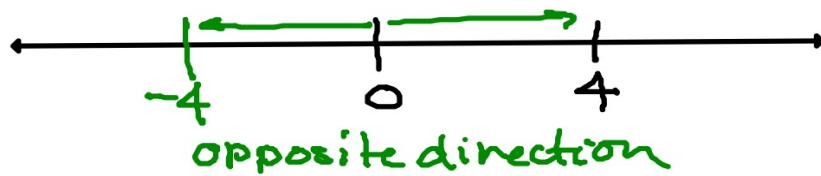
$$-4\frac{1}{3} < -4$$

$$5.2 < 5\frac{1}{3}$$

$$-0.5 \quad -0.333\dots \quad -4.\overline{3} \quad -4$$

$$5.2 \quad 5.\overline{3}$$

What is the "opposite" of a number?

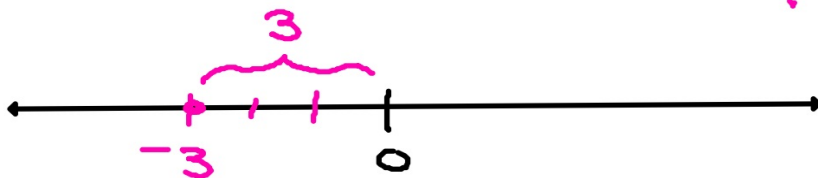


Find the opposite of each number.

4	-3	$1\frac{1}{2}$	-7.1	n
-4	3	$-1\frac{1}{2}$	7.1	$-n$

What is the "absolute value" of a number?

$$|-3| = 3$$



How far away from 0 is it?

Find the absolute value of each number.

$$\begin{array}{cc} |4| & |-3| \\ = 4 & = 3 \end{array} \quad \begin{array}{cc} |1\frac{1}{2}| & |-7.1| \\ = 1\frac{1}{2} & = 7.1 \end{array}$$

Simplify each.

$$-(-6) = 6$$

$$\begin{array}{l} -|-4| \\ -4 \end{array} = -4$$

$$\begin{array}{l} | -(-5) | \\ | 5 | \end{array} = 5$$

$$\begin{array}{l} -|12 - 18| \\ -|-6| \end{array} = -6$$

Homework:

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#20-60 all
due Friday

