- 1) Which of the following sets contains only rational numbers?
 - **A.** $0.\overline{3}, 0.\overline{6}, 3.14$
 - **B.** $\frac{1}{9}$, π , $4\frac{1}{6}$
 - **c.** $0.\overline{2}, \frac{3}{2}, \sqrt{7}$
 - **D.** $0.\overline{8}$, $0.\overline{87}$, 0.16075423...
- 2) Which of the following sets contains only irrational numbers?
 - **A.** π , $\sqrt{2}$, 4.238905...
 - **B.** $\frac{1}{7}$, 3.14, 5
 - **c.** $2\frac{1}{4}$, $\sqrt{5}$, 7.717
 - **D.** 0.1, 0.09, 0.16

- Which of the following sets contains only repeats or ends rational numbers?
 - **A.** 0.3, 0.16, 3.14
 - **B.** $\frac{1}{9}$, π , $4\frac{1}{6}$
 - **c.** $0.\overline{2}, \frac{3}{2}, \sqrt{7}$
 - **D.** $0.\overline{8}$, $0.\overline{87}$, 0.16075423...
- Which of the following sets contains only irrational numbers? does not end or cepent

A.
$$\pi$$
, $\sqrt{2}$, 4.238905...

- **B.** $\frac{1}{7}$, 3.14, 5
- **C.** $2\frac{1}{4}$, $\sqrt{5}$, 7.717
- **D.** 0.1, 0.09, 0.16

Homework

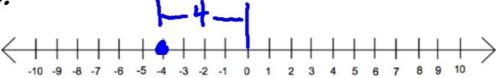
Jackbin your reasoning in detail.

5	Rational, because 5 is natural, whole, and an integer, real
5 7	Rational, because it mount
0.575	Rational, because it is a decimal that terminates real
√s	Irrational, because 5 is not a perfect square. Therefore, rec
5+√7	non-terminating real
√10 2	Trrational, because fit is
5.75	is non-terminating.

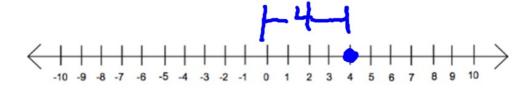
Absolute Value

Absolute value is used to describe the distance a number is from
The notation we use to show absolute value is a pair ofparellel lines Draw these below.
To read the expression -4 you would say, "the absolute value of -4"

Looking at the number line below, we can see that -4 is four spaces away from zero.



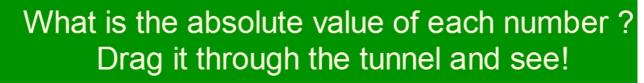
Positive 4 is also four spaces away from zero.

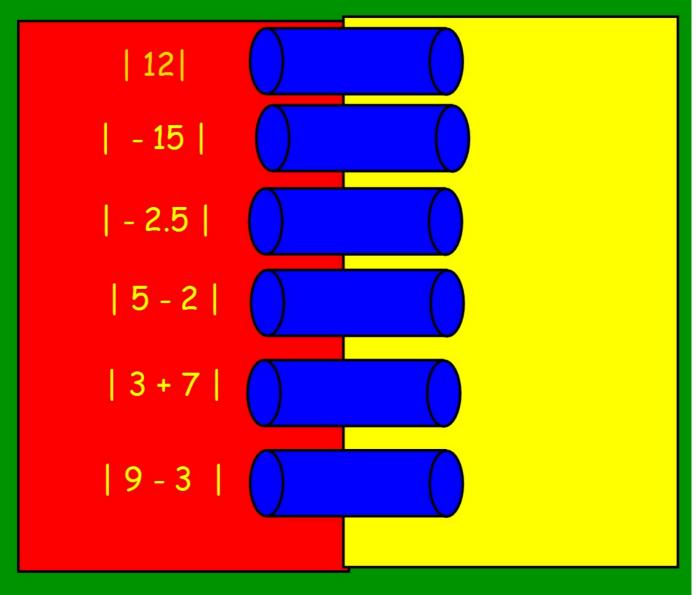


So,
$$|-4| = \frac{4}{9}$$
 AND $|4| = \frac{4}{9}$

Because absolute value refers to distance on a number line, it is always a positive number!

hbh-negative!





Evaluate the following using your knowledge of Absolute values.

Try These.

Evaluate the following using your knowledge of Absolute values.

1)
$$|2|-|2|$$
 2) $|16-2|$ 2-2=0 $|14|$ 3) $|-8|-|-8|$ 14

$$\begin{array}{c} 8 - 8 \\ - 8 \\ - 8 \\ - 7 \\ - 8 \\ + 7 \\ = 15 \end{array}$$

USING INTEGERS TO FIND DISTANCES

An eagle leaves her nest on the side of a cliff. She soars upward 60 ft and then dives 80 ft. What is her change in elevation after leaving the nest?

