

- Real Numbers: $-1, 2, 0, \frac{-15}{4},$

*** Real Numbers are
either Positive or
Negative!** $.25$

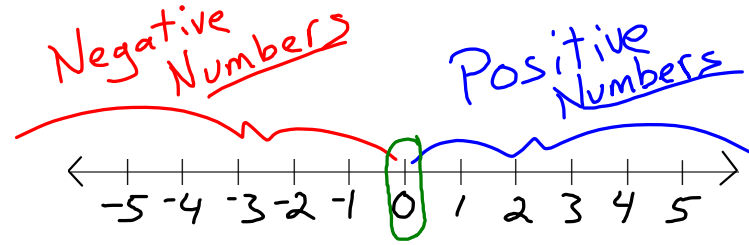
Special Real Numbers

-Integers: $\{\dots, -2, -1, 0, 1, 2, \dots\}$
 $(-\infty, \infty)$

-Whole Numbers:

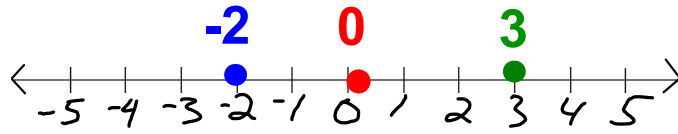
$\{0, 1, 2, 3, \dots\}$
 $[0, \infty)$

Real Number Line



Zero: Neither Positive Nor Negative.
It is Neutral

Graph: -2, 0, 3

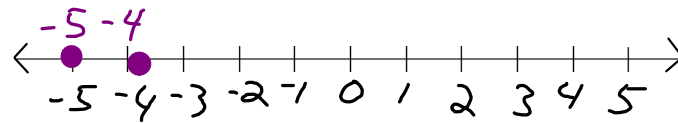


Compare Integers:

*Which is greater than and
which is less than

Compare -4 & -5
Then write 2 inequalities

∴
Means
Therefore



-4 is to the Right of -5
∴ -4 is greater than -5

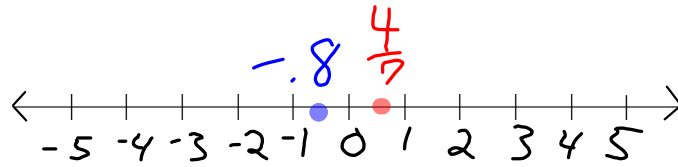
$$-4 > -5$$

-5 is to the Left of -4
∴ -5 is Less than -4

$$-5 < -4$$

Graph Real Numbers:

Graph: -0.8 & $\frac{4}{7}$ 0.57142857142857142857142857142857



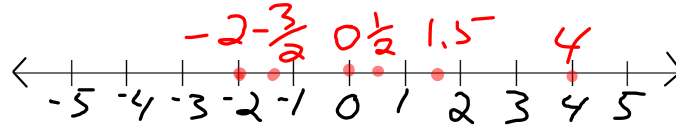
Order Real Numbers:

re-write
as a
dec.

Write the numbers
 $-2, 4, 0, 1.5, \frac{1}{2}, \frac{-3}{2}$
in increasing order

Smallest
to
Largest

$\rightarrow -2, 4, 0, 1.5, .5, -1.5$

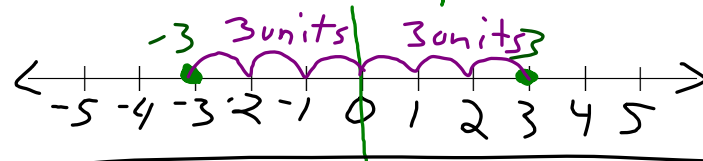


$-2, -\frac{3}{2}, 0, \frac{1}{2}, 1.5, 4$

2.2. Absolute Value

opposites: Two numbers that are the same distance from zero on the # line.

ie: -3 & 3 are opposites



What is the opposite of:

$$-4: \underline{4}$$

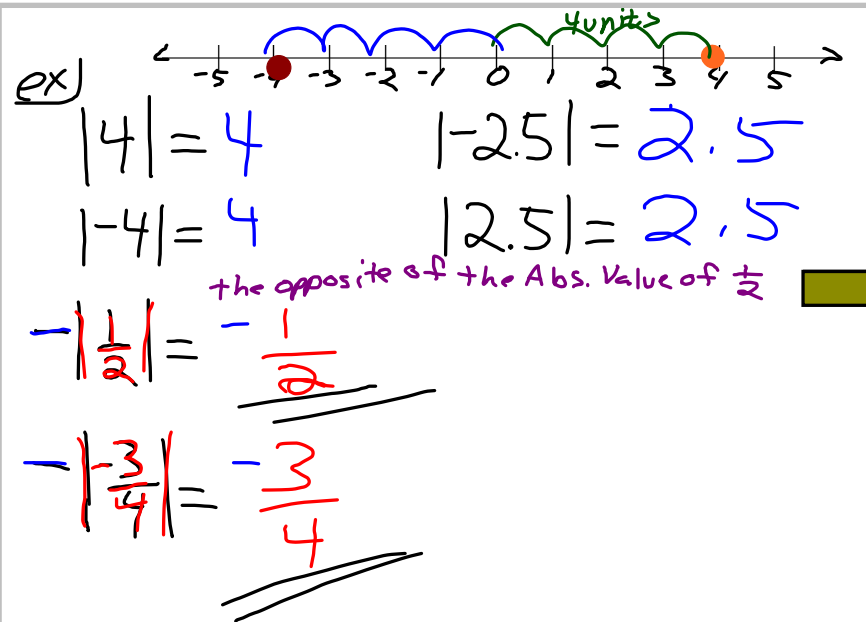
$$-1.5: \underline{1.5}$$

$$82: \underline{-82}$$

-absolute value: a number's distance from zero on the # line

we use the $||$ symbol to represent Abs. Value.

ie: $|-5| \Rightarrow$ Absolute Value of -5



Use Mental Math to Solve:

$$|x| = 7$$

What Numbers ~~has~~ ^{have} a distance from zero that ~~is~~ ^{are} 7?

$$\underline{\underline{x = 7}} \text{ or } \underline{\underline{x = -7}}$$

they both have a distance of "7" away from zero.

O. T. L.

1. Pg. 68-69: 1, 2, 15-29 (o), 31-34 (a), 35-49 (o), 55-59 (a)

Use ex 5 on pg 6 for help if needed

#'s 45, 47, 49, show me the number line for each

② Pg 74: 1-15(a)

③ Turn in the C.R.Q. write the question, show work, give the answer

Put your work on Back table!
5 shelf