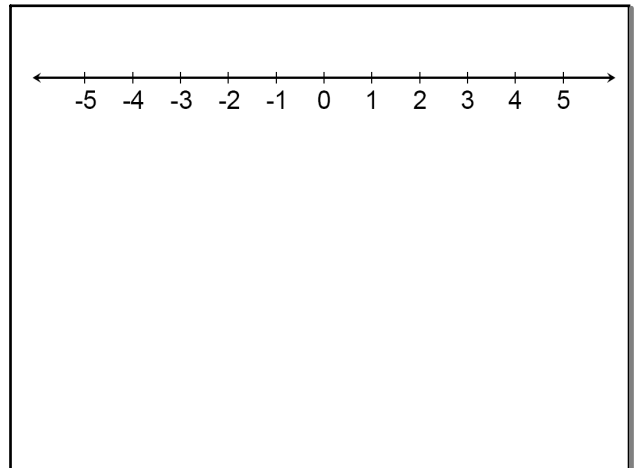
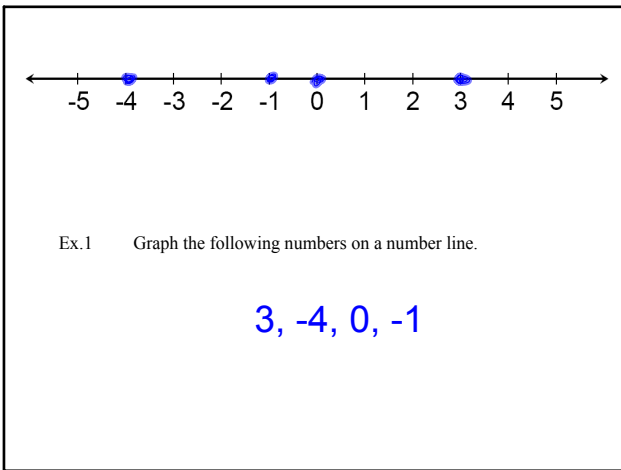


Aug 5-2:04 PM



Aug 5-2:05 PM



Aug 5-2:05 PM

Absolute Value: The distance from zero on a number line

$$|6| = 6 \quad |-6| = 6$$

$$|3| = 3 \quad |-3| = 3$$

To find Absolute Value drop any negative signs!!!

Aug 5-2:08 PM

Ex.2 Write a positive or negative quantity for each statement

A deposit of \$250 250

45 seconds before launch -45

a debt of \$50 -50

an elevation of 3,400 feet 3400

300 feet below sea level -300

Aug 5-2:15 PM

Finding Famous Ships

Scientist-explorer Robert D. Ballard led the expeditions that found two famous ships deep in the North Atlantic Ocean.

In 1944, the mighty warship *Bismarck* sank in battle. *Bismarck* was 229 ft long and 418 ft wide.

In 1912, the luxury passenger liner *Titanic* struck an iceberg. It came to rest 12,500 ft below sea level. *Titanic* was 882 ft long and 92 ft wide.

Star *Hercules*, only 269 ft long, towed the underwater camera sled that found *Bismarck* under 15,617 ft of water.

Ex.3 How would we write integers to represent the positions of *Titanic* and *Bismarck*?

-12,500 -15,617

A friend says that *Bismarck*'s resting place is higher than *Titanic*'s, since 15,617 is higher than 12,500. Explain your friend's error.

May 27-7:37 AM

Ex.4 Insert $<$, $>$, or $=$ to make the following true:

$$-9 < 6$$

$$-8 > -11$$

$$|6| = |-6|$$

$$|-8| > 3$$

Sep 10-9:04 AM

Ex. 5

Evaluate each expression if $x = 8$ and $y = -3$.

$$12 + |y|$$

$$x - |y|$$

$$2|x| + 3|y|$$

May 18-3:39 PM

Ex.6 Write a number for each, then put the numbers in order

- E** 3 units to the left of 0
- S** the opposite of 8
- N** 15 ft above sea level
- E** a gain of 6 yd
- I** 5° below zero
- N** a deposit of \$20
- E** 14 steps backward
- T** four seconds after liftoff
- I** a loss of ten pounds
- W** one floor down
- E** 19 m below sea level
- H** the opposite of -11

Sep 10-9:23 AM

Ex. 7

TEMPERATURES Order the state temperatures from least to greatest.

State	AL	AK	CA	FL	HI	ME	NJ	OH	TX
Temperature	-27	-80	-45	-2	12	-48	-34	-39	-23

May 18-1:37 PM

Ex. 8 Evaluate each expression if $a = -3$, $b = 0$, and $c = 1$.

$$|a| - |c|$$

$$c + |5|$$

$$|ab| + c$$

Homework: page 64-65 (16-52 even)

May 18-3:35 PM

May 18-1:48 PM