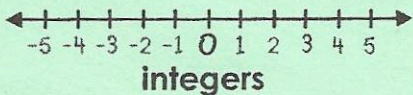


integer



A number with no fractional part.

All the whole numbers and all the whole negative numbers are integers.

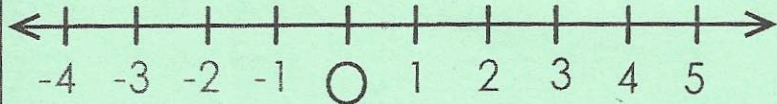
Zero is an integer.

Fractions are not integers.

Not integers: 1.5, -3.21, $7/8$

Integers: 2, -16, 38, 0, 459

positive number

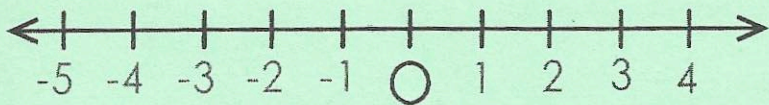


A number greater than zero is a positive number.

For example, 4, 736, 8.5, and .62 are positive numbers.

negative number

A number less than zero is a negative number.

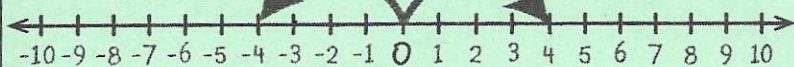


For example, -2, -5, -736, -88.5, and -9.623 are negative numbers. A negative number has a minus-sign (-) to its left.

opposite number

The opposite of 4 is -4.

The opposite of -4 is 4.



Zero is its own opposite.

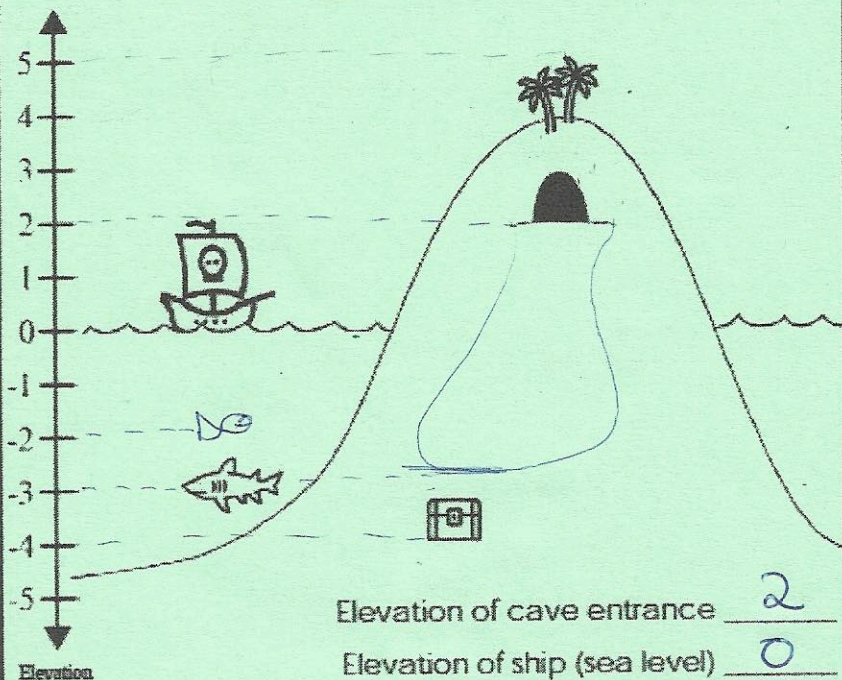
The number that is an equal distance from zero on the opposite side of the number line.



Carla the Pirate hides her treasure in a cave on a deserted island.

positive numbers

negative numbers



Elevation of cave entrance 2
 Elevation of ship (sea level) 0
 Elevation of shark -3

combining negative and positive numbers

adding

Start at the first number and count up or right.

The tree tops are 3 meters higher than the cave entrance. What is the elevation of the tree tops?

$$2 + 3 = 5$$

subtracting

Start at the first number and count down or left.

The floor of the cave is 5 meters below the entrance. What is the elevation of the cave floor?

$$2 - 5 = -3$$

A fish is swimming 1 meter above the shark. What is the elevation of the fish?

$$-3 + 1 = -2$$

Carla buried her treasure in a hole 1 meter deep. What is the elevation of the treasure?

$$-3 - 1 = -4$$

Expressions & Equations

Geometry

Ratios & Proportions

Statistics