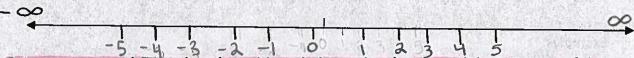
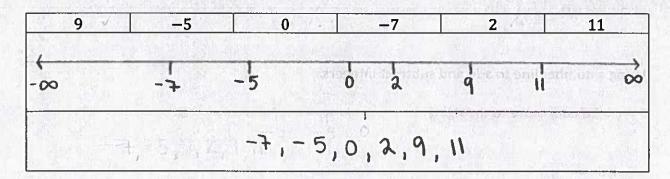
1.3 Integers

- Plot 0 on the horizontal number line.
- Plot 5 smallest positive integers on the horizontal number line.
- Plot 5 largest negative integers on the horizontal number line.

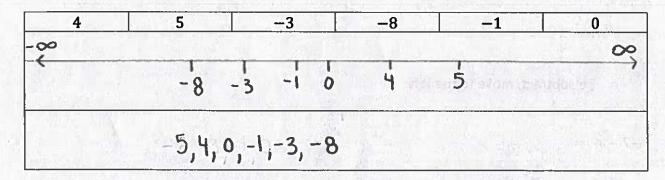


Integers are counting numbers (= positive whole numbers), zero, and the opposites of the counting numbers.

- o The proper mathematical name for counting numbers is Natural numbers.
- o To order integers from least to greatest is to write them in ascending = increasing order.



o To order integers from greatest to least is to write them in descending = decreasing order.



Recall: The more to the left a number is on the number line, the smaller it is.

The more to the right a number is on the number line, the greater it is.

Recall:

Adding a negative number is the same as subtracting a positive number.

$$6 + (-4) = 6 - 4$$

Subtracting a negative number is the same as adding a positive number.

$$13 - (-5) = 13 + 5$$

Examples:

Using a number line to add and subtract integers.

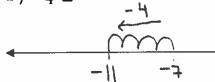
o To add, move to the right.

$$-5+3=-2$$



o To subtract, move to the left.

$$-7 - 4 =$$



Task: Give at least 5 real-life examples when we use negative numbers.

- Tempature below Oc
- Money (debt, Stocks / loss of &)
- Depth elevation | below Sea-level
- Coordinates (west/South) (left, down)
 Depreciation in value value goes down over time

Multiplication Rules:

$$(+)(+)=\oplus$$

$$(+)(-) = \Theta$$

$$(-)(+)=\Theta$$

Examples:

$$1.(-3)(5) = -15$$

Same rules apply to division.

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