

M9

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.

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

9	-5	0	-7	2	11

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

4	5	-3	-8	-1	0

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.

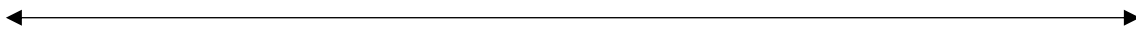
$$13 - (-5) = 13 + 5$$

Examples:

Using a number line to add and subtract integers.

- To add, move to the right.

$$-5 + 3 =$$



- To subtract, move to the left.

$$-7 - 4 =$$



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

Multiplication Rules:

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Examples: