7th and 8th Grade Math

Review: Absolute Value and adding integers

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For todays homework you will need to copy the following notes and exercises onto your own notebook paper.
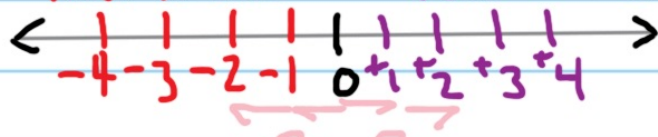
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← Heading

Notes: Absolute value

Integers = negative numbers and Positive Numbers

$$-4 \quad -3 \quad -2 \quad -1 \quad 0 \quad +1 \quad +2 \quad +3 \quad +4$$

2   2

Absolute Value = Distance of an integer from 0.

$$|-2| = 2 \qquad |2| = 2$$

units from 0   units from 0

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Exercises

① $|-5| = 5$

$$-7 \ -6 \ -5 \ -4 \ -3 \ -2 \ -1 \ 0 \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7$$

5 units   5 units
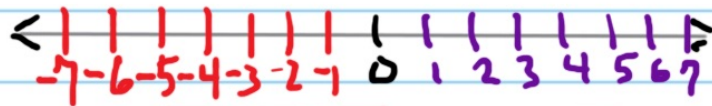
② $|5| = 5$

③ $|3| = 3$ ④ $|3| = 3$

⑤ $|-8| =$ ⑥ $|9| =$

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Notes: Adding Integers

$$-4 + 5 = 1$$

Start   pos
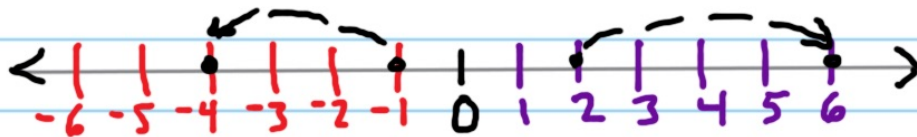   direction   end

$$3 + (-5) = -2$$

Start   neg   end
         direction

$$-1 + (-3) = -4$$ $$2 + 4 = 6$$

Start   neg   End   Start   pos   end
        dir   dir
         ←   →

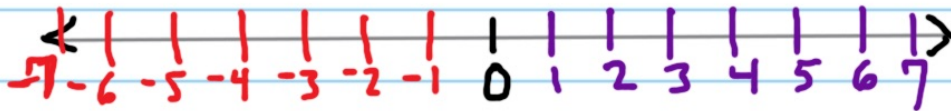$$5 + -3 = 2$$ $$-2 + 4 = 2$$

$$-5 + 7 = 2$$ $$-3 + 1 = -2$$

Exercises

① $4 + 3 = 7$ ② $-4 + 3 = -1$

③ $4 + (-3) = 1$ ④ $-4 + (-3) = -7$

$$\leftarrow | \; | \; | \; | \; | \; | \; | \; | \; | \; | \; | \; | \; | \; | \rightarrow$$
$$-7 \;\; -6 \;\; -5 \;\; -4 \;\; -3 \;\; -2 \;\; -1 \;\; 0 \;\; 1 \;\; 2 \;\; 3 \;\; 4 \;\; 5 \;\; 6 \;\; 7$$

⑤ $2 + 3 =$ ⑥ $-2 + 3 =$

⑦ $2 + (-3) =$ ⑧ $-2 + (-2) =$