

Agenda

- 1) Push desks in to groups of 4
Take out HW for credit
Check HW in groups **(10 min)**

- 2) **2.5 Solving Abs Value Sentences Graphically**
DO NOW - in groups **(10 min)**
- on board **(10 min)**

- 3) Move desks back into pairs

- 4) Absolute Value Inequalities continued
 - a) Try #7-9 in groups **(10 min)**
 - b) Review on board **(10 min)**

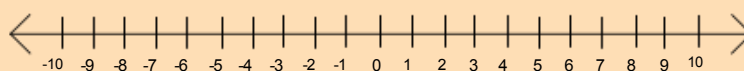
Homework p. 78-79 #3, 7, 11, 13, 15, 19, 25
Chapter 2 Test on Monday

2-5: Solving Absolute Value Sentences Graphically

DO NOW

- a) Translate into a sentence involving distance. Then graph those #s on a number line. (DON'T SOLVE ALGEBRAICALLY)

$$|x - 2| > 7$$



- b) Express as an absolute value:

i) $t=6$ or $t=-6$

ii) $x \leq -4$ or $x \geq 4$

iii) $3 > (4x - 1) > -3$

- d) Express as an absolute value:

The distance between a number and 7 is at most 4 units.

- e) Express as an absolute value:

The distance between a number and -5 is less than 2 units.

7) Solve: $2|2x + 2| - 4 \leq 8$ (Get the absolute value by itself first!!!)



8) Solve: $2\left|\frac{2x - 5}{3}\right| - 3 \geq 5$ (Get the absolute value by itself first!!!)



9) Solve: (Collect like terms first!!!)

$$\frac{1}{2}|d| + 5 \geq 2|d| - 13$$



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