

## Agenda

**1) Push desks in to groups of 4**

**Take out HW for credit**

**Check HW in groups (10 min)**

**2) DO NOW - in groups/ up on board (10 min)**

**3) Move desks back into pairs**

**4) 2.4 Absolute Value Inequalities**

**a) 1 - 3 w/ me (10 min)**

**b) 4 - 9 on your own (10 min)**

**5) Review 4 - 9 on board (10 min)**

*Homework p. 71 #6, 10*

*p. 75 # 9, 13, 19, 21, 31*

# DO NOW

Solve each absolute value:

1)  $|x| = 8$

4)  $4|x| = 8$

2)  $|t| = -8$

5)  $|r - 5| = 8$

3)  $|x| + 7 = 8$

6)  $|4r| = 8$

## 2.4 Absolute Value in Open Sentences

Objective: To solve open sentences involving absolute value

1) Solve and Graph:

$$|3x - 2| = 8$$

$$(3x - 2) = 8$$

$$-(3x - 2) = 8$$



Split into two.

Solve for x.

2) Solve and Graph:

$$|3 - 2t| < 5$$

$$(3 - 2t) < 5$$

$$-(3 - 2t) < 5$$



Split into two.

Solve for  $t$ .

Is this an "and" or an "or"?

3) Solve and Graph:

$$|2z - 1| \geq 8$$





Split into two.

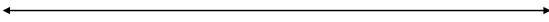
Solve for  $z$ .

Is this an "and" or an "or"?

Write as a conjunction ("and") or disjunction ("or"), solve, and graph.

4) Solve:  $|2x - 1| = 9$  

5) Solve:  $|3x - 5| < 8$  

6) Solve:  $|2x - 1| + 3 \geq 8$  (Get the absolute value by itself first!!!) 

**Homework p. 71 #6, 10**  
**p. 75 # 9, 13, 19, 21, 31**