

7th Grade  
March 23, 2021

Today we will:

- Take video notes
- Do white board examples
- Begin HW



HOMEWORK:

Complete #7-12 in notes

Test FRIDAY

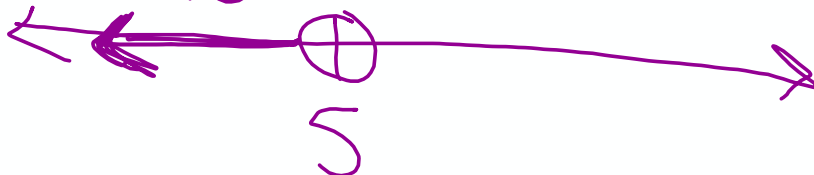
ALEKS assignment:  
60 min and 5 topics  
due Monday by 11:59pm



$$x > 5$$



$$x < 5$$



$$x \geq 5$$



$$x \leq 5$$



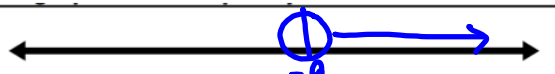
#5

$$\begin{array}{r} x + 7 \leq 24 \\ -7 \quad -7 \\ \hline x \leq 17 \end{array}$$




New rule: When multiplying or dividing by a \_\_\_\_\_ number, you must \_\_\_\_\_ the direction of the \_\_\_\_\_!

S  
o  
l  
v  
i  
n  
g  
  
l  
i  
n  
e  
a  
r  
i  
t  
i  
e  
s

1.   

$$\frac{4x}{4} > \frac{-36}{4}$$

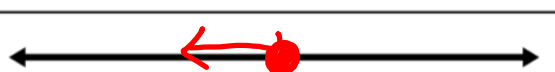
$$x > -9$$

2.   


$$\frac{7}{2}y > 63$$

$$\frac{2}{7} \cdot \frac{7}{2}y > \frac{63}{1} \cdot \frac{2}{7}$$

$$y > 18$$

3.   

$$45 \geq -10r$$

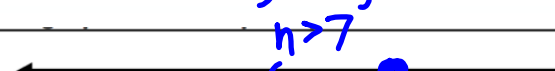
4.   

$$13 - 3n < -8$$

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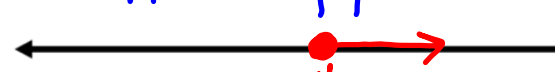
$$-3n < -21$$

$$n > 7$$

5.   
 7 more than a number is at most 24  

$$n + 7 \leq 24$$

$$n \leq 17$$

6.   

$$3c + 15 \leq 8c - 5$$

$$15 \leq 5c - 5$$

$$20 \leq 5c$$

7



$$3x - 6 \geq 9$$

*+6*      *+6*

8



$$12 - 2d > 40$$

*-12*      *-12*      *-14*

$$\frac{-2d}{-2} > \frac{28}{-2}$$

*d < -14*

9



$$15 \leq -\frac{1}{4}k - 9$$

10



The product of -6 and a number is at least 18

11



12 less than a number is at most 20

12



Jacob has at most 3 hours to work on a math assignment and a history project. If the math assignment will take 0.25 hour, how much can he spend on the history project? Write and solve an inequality.



Note:

For this chapter, you **MUST** solve **ALL EQUATIONS** by balancing! If you do not show balancing, you will get **HALF CREDIT**, even if you have the correct solution!

