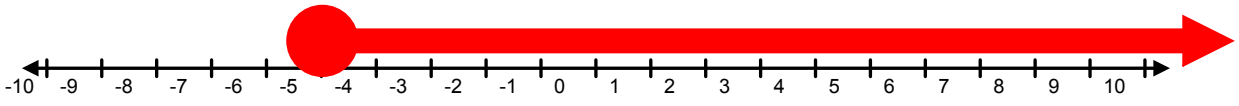
Week 6 Monday Warm-up collab day

1. Skill 1: Solve the equation: $7-3(2x+10)=4(3x-4)+2$

Skill 2: Use a proportion to solve: On a quiz Sam got 35 out of 52 questions correct. If he has the same % score on his chapter test that has 150 questions, how many answers will be correct on the chapter test?

3. Keelah's Clothing Store buys coats for $50 and then sells them for $80. What is the percent of mark up on the price of the coat?

4. Write the inequality represented by the graph.



5. Solve and graph the following inequality: $8 \geq x$

3-2 Solving Inequalities Using Addition or Subtraction

Question: If you add or subtract the same number from both sides of an INEQUALITY, is it still true?

Complete the following additon and subtraction problems as shown. Be sure to include the correct inequality symbol.

1. $\begin{array}{r} -1 < 3 \\ -5 \quad -5 \\ \hline \end{array}$

2. $\begin{array}{r} 4 > 0 \\ +3 \quad +3 \\ \hline \end{array}$

3. $\begin{array}{r} -2 < 4 \\ +2 \quad +2 \\ \hline \end{array}$

4. $\begin{array}{r} 5 > -2 \\ -6 \quad -6 \\ \hline \end{array}$

Answer?

Let's use this idea to help us solve inequalities and graph their solutions:

5. $x - 15 > -12$

6. $n - 5 < -3$

7. $t + 3 \leq -2$

8. $-1 \geq y + 12$

9. The hard drive on your computer has a capacity of 978 GB. You used 115 GB, but you want to save some home videos to your hard drive. What are the possible sizes of the home video collection you can save?

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Solve each inequality. Graph and check your solutions.

13. $y - 2 > 11$

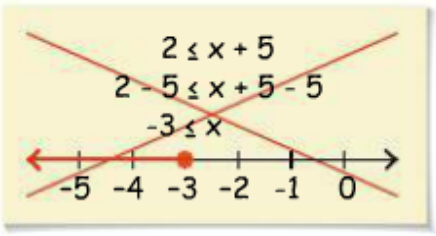
17. $t - 4 \geq -7$

21. $0 < -\frac{1}{3} + f$

25. $4.3 > -0$

Solve each inequality. Graph and check your solutions.

39. $\frac{1}{3} < n + 3$

Error Analysis **Describe and correct the error in solving each inequality or in graphing the solution.**

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