EXPRESSIONS & EQUATIONS

INEQUALITY FOLDABLE AND SCAVENGER HUNT

Thank You

for downloading this product! I truly hope that you & your students enjoy using this in your classroom & find it helpful!

If you have any questions, please feel free to email me at clever.clover17@gmail.com

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TPT

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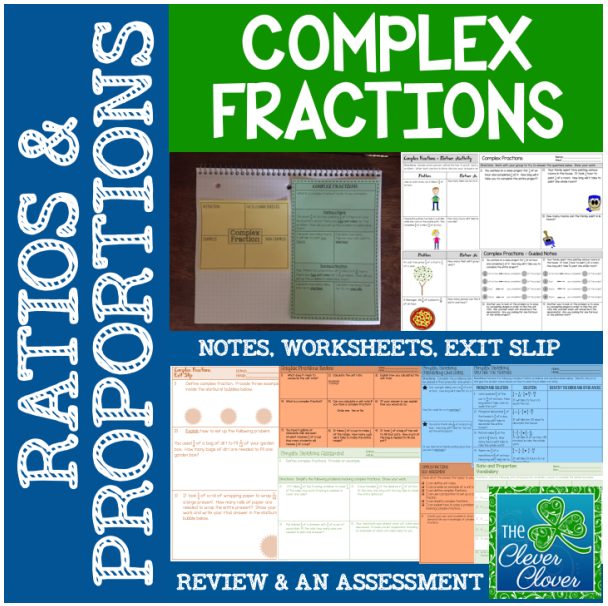

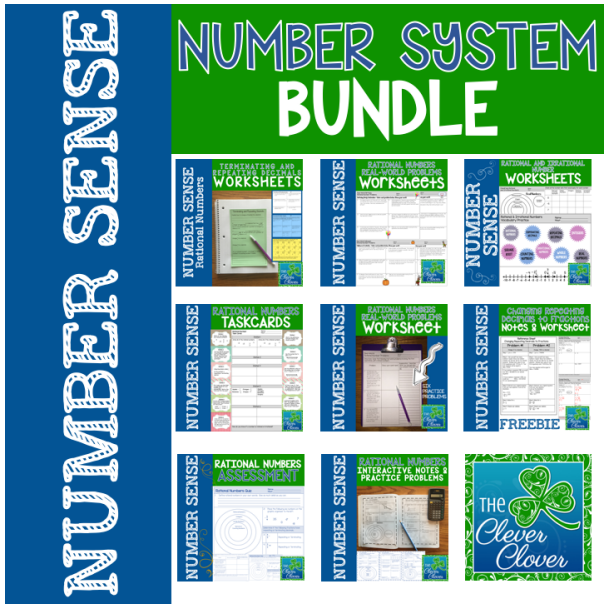

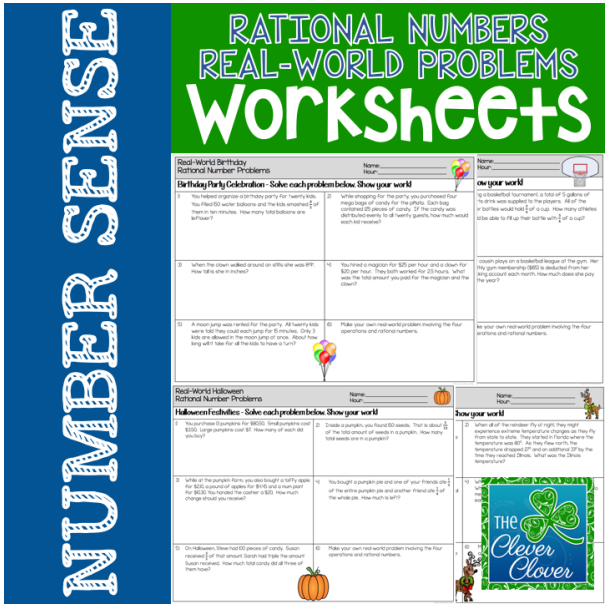

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RebeccaB designs

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2 SMART Chicks Clips

Graphics by Shae Hare

This product includes a free inequality foldable. Students can reference various examples of inequalities graphed on a number line. There are examples of less than, greater than, less than or equal to and greater than or equal to inequalities. On the inside of the foldable, students can practice one of each type of inequality problem. The bottom portion of the foldable includes one and two step inequalities.

Print the foldable on both sides (along the long edge). Trim the outer rectangle and have students glue it into their notebooks.

A sixteen problem scavenger hunt is also included with this freebie! This activity has students practice two-step inequality problems involving all four operations. Students are asked to solve and graph an inequality and then search around the room for the answer to the problem. Once they find it, they complete the next problem listed on the card. An answer document and key are included.

A little dab of glue will do....

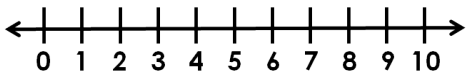
Glue this side down in your notebook.

INEQUALITIES

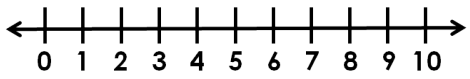
LESS THAN	GREATER THAN	LESS THAN OR EQUAL TO	GREATER THAN OR EQUAL TO
<	>	≤	≥
Represented on a number line with an open circle. o	Represented on a number line with an open circle. o	Represented on a number line with a closed circle. ●	Represented on a number line with a closed circle. ●

Graph the inequalities on the number lines and describe the possible solutions on the lines provided.

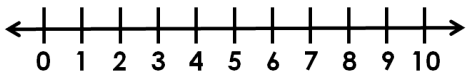
$x < 3$



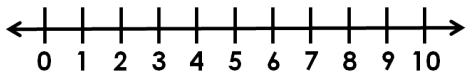
$x > 3$



$x \leq 3$

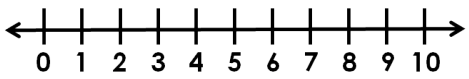


$x \geq 3$

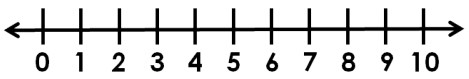


Solve the inequalities below. Show your work. Graph the inequalities on the number line.

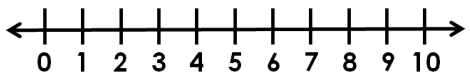
$x + 2 < 6$



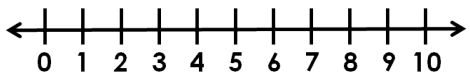
$x - 5 > 1$



$2x + 1 \leq 11$



$3x + 7 \geq 19$



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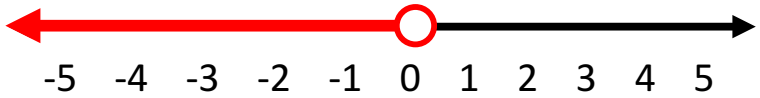
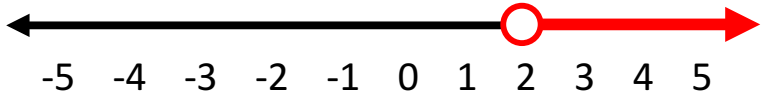


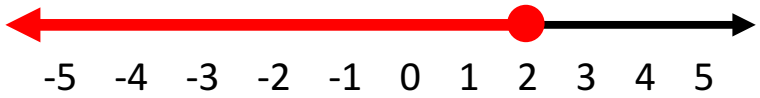
$2x + 4 > 8$

If you found:



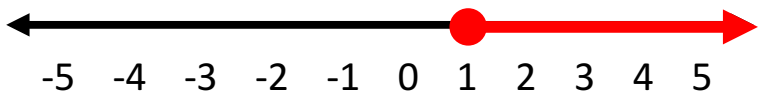
$3b + 3.5 \leq 9.5$

If you found:



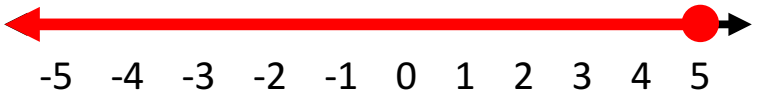
$5 + k + -2 \geq 4$

If you found:



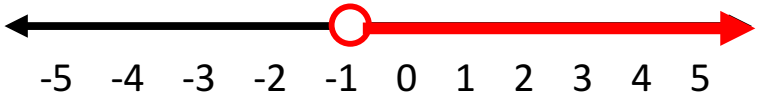
$46 \geq 3g + 31$

If you found:



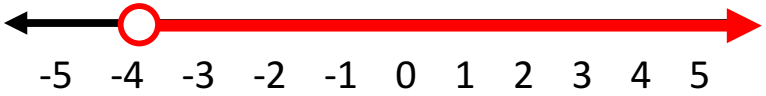
$-40 < 5g - 35$

If you found:



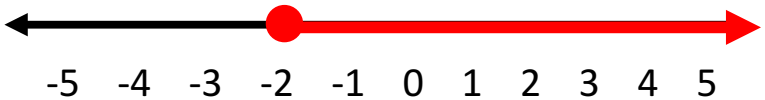
$\frac{b}{2} - 6 > -8$

If you found:



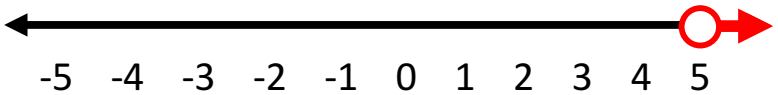
$5z - 5 \geq -15$

If you found:



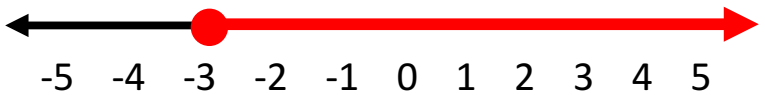
$90 + 10m > 140$

If you found:



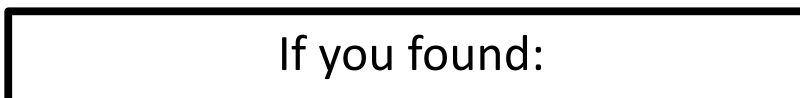
$$\frac{y}{3} - 4 \geq -5$$

If you found:



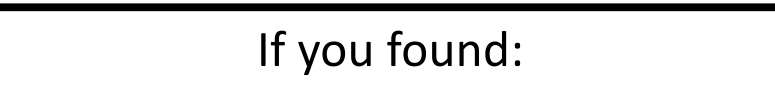
$$4w - 5 < -10 + 3w$$

If you found:



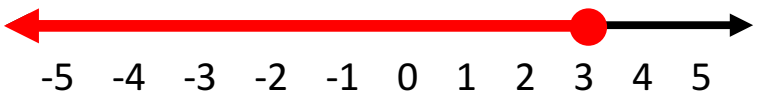
$$24 + 3f < 9f$$

If you found:



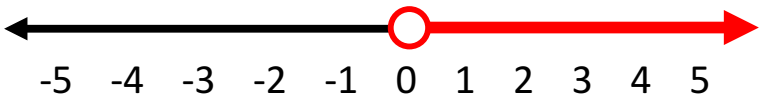
$$-4 + \frac{p}{3} \leq -3$$

If you found:



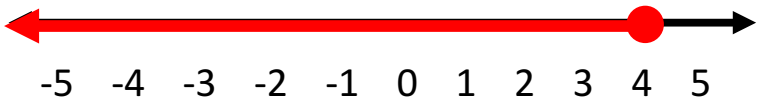
$10x + 2 > 2$

If you found:



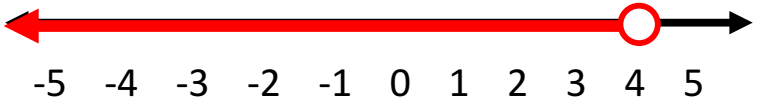
$26 \geq 4z + 10$

If you found:



$7 > 6 + \frac{h}{4}$

If you found:



$3p + 12 < 12$

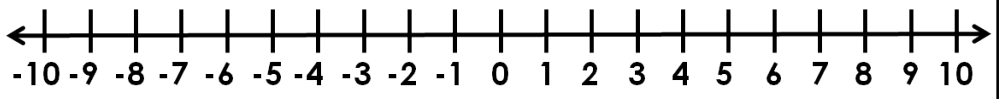
Inequality Scavenger Hunt

Name:_____

Hour:_____

Directions: Write the inequality problem from the task card. Solve and graph each inequality.

1



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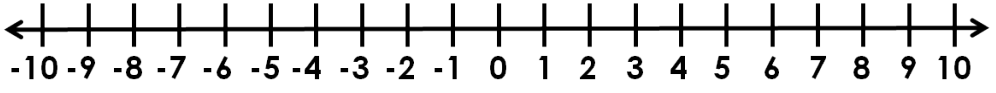

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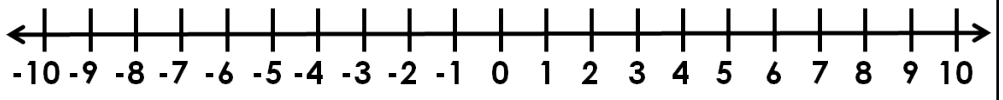

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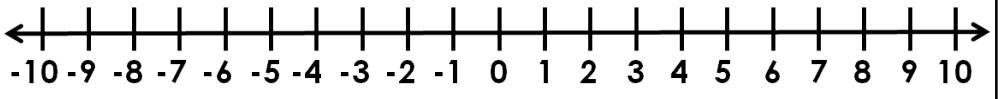

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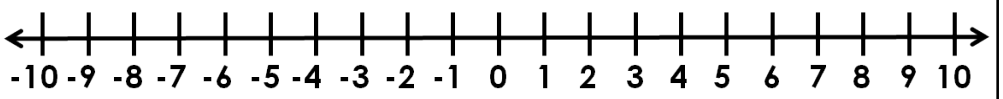

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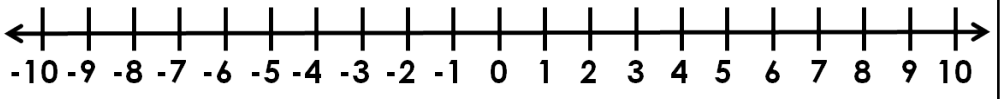

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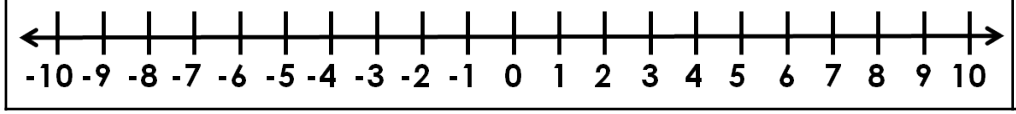

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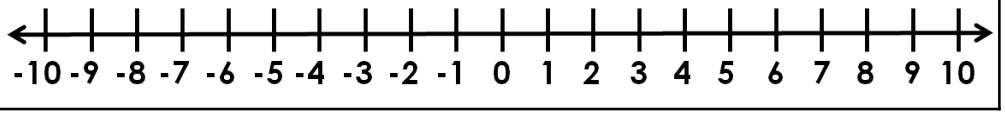

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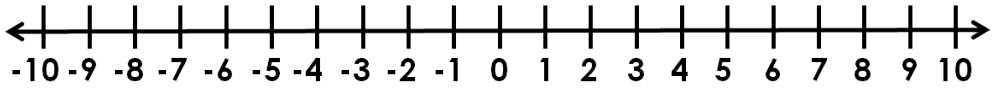

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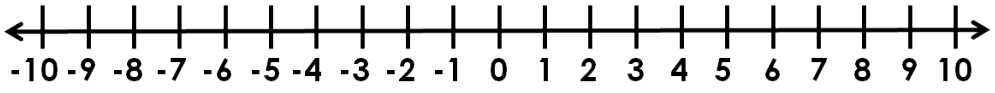

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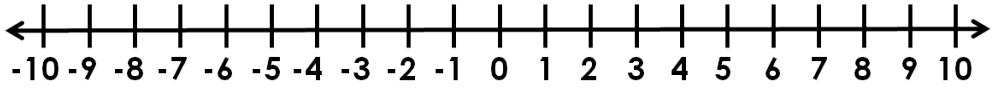

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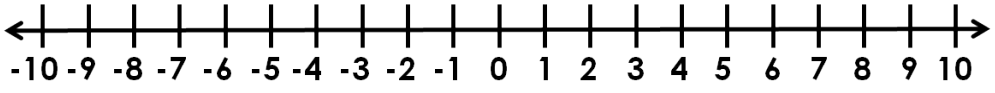

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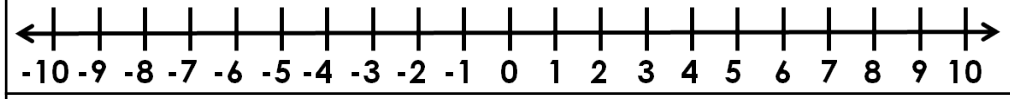

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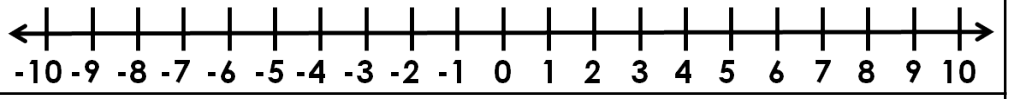

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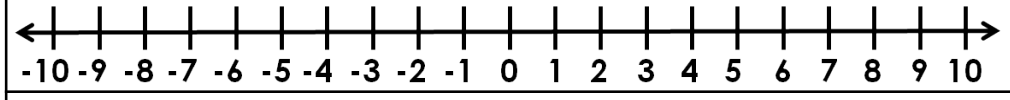

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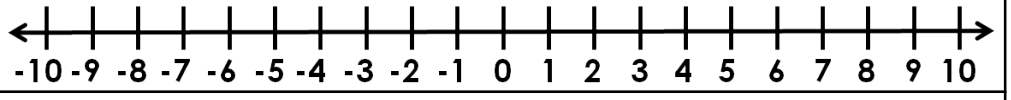


While graphing solutions on the number line, you can use > or ≥. Explain the difference between the two inequality symbols.

Inequality Scavenger Hunt

Name: ANSWER KEY

Hour: _____

Directions: Write the inequality problem from the task card. Solve and graph each inequality.

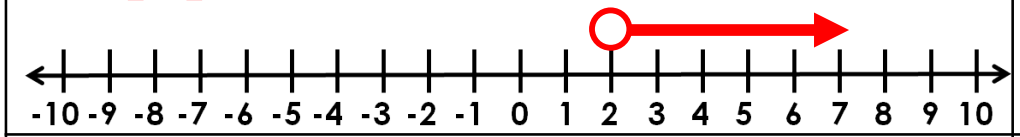
1

$2x + 4 > 8$

$2x + 4 - 4 > 8 - 4$

$\frac{2x}{2} > \frac{4}{2}$

Answer: $x > 2$



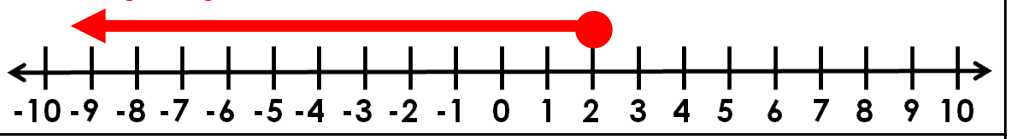
2

$3b + 3.5 \leq \mathbf{9.5}$

$3b + 3.5 - 3.5 \leq \mathbf{9.5} - 3.5$

$\frac{3b}{3} \leq \frac{6}{3}$

Answer: $b \leq \mathbf{2}$

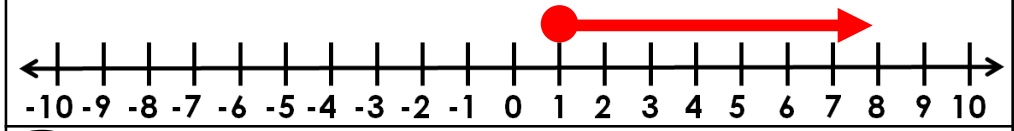


3

$5 + k + -2 \geq 4$

$k + 3 - 3 \geq 4 - 3$

Answer: $k \geq 1$



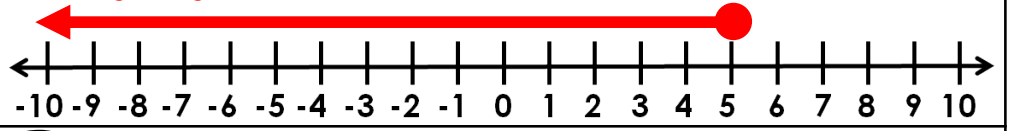
4

$46 \geq 3g + 31$

$46 - 31 \geq 3g + 31 - 31$

$\frac{15}{3} \geq \frac{3g}{3}$

Answer: $5 \geq g$



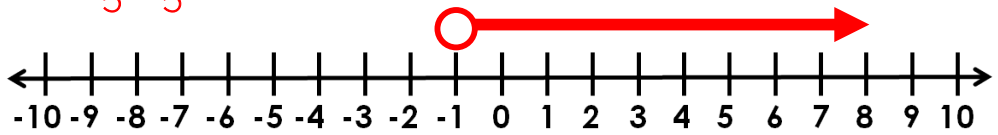
5

$-40 < 5g - 35$

$-40 + 35 < 5g - 35 + 35$

$\frac{-5}{5} < \frac{5g}{5}$

Answer: $-1 < g$

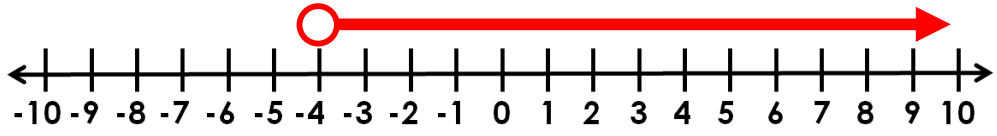


6

$\frac{b}{2} - 6 > -8$

$\frac{b}{2} - 6 + 6 > -8 + 6$ $\quad 2 \cdot \frac{b}{2} > -2 \cdot 2$

Answer: $b > -4$



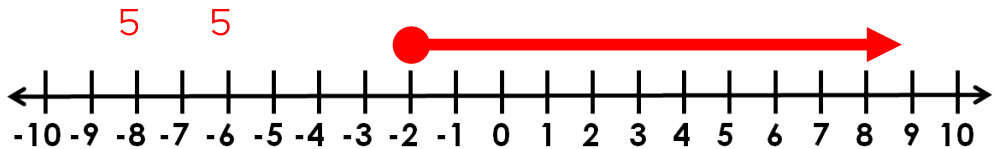
7

$5z - 5 \geq -15$

$5z - 5 + 5 \geq -15 + 5$

$\frac{5z}{5} \geq \frac{-10}{5}$

Answer: $z \geq -2$



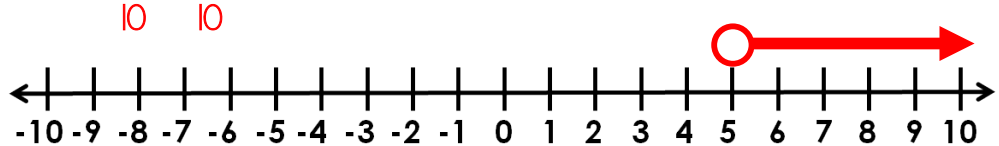
8

$90 + 10m > 140$

$90 - 90 + 10m > 140 - 90$

$\frac{10m}{10} > \frac{50}{10}$

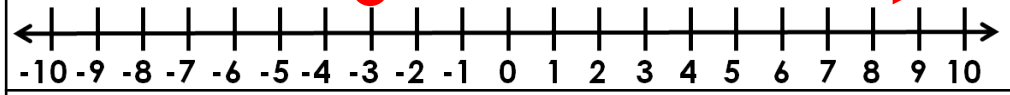
Answer: $m > 5$



9 $\frac{y}{3} - 4 \geq -5$

$\frac{y}{3} - 4 + 4 \geq -5 + 4$ $\quad 3 \cdot \frac{y}{3} \geq -1 \cdot 3$

Answer: $y \geq -3$

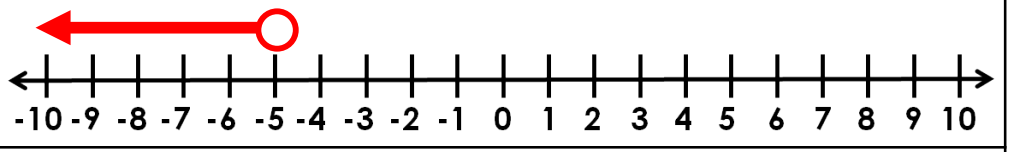


10 $4w - 5 < -10 + 3w$

$4w - 5 + 5 < -10 + 3w + 5$

$4w + -3w < -5 + 3w + -3w$

Answer: $w < -5$



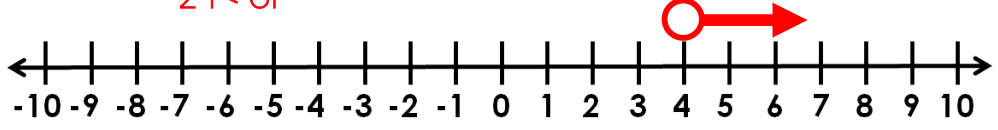
11 $24 + 3f < 9f$

$24 + 3f < 9f$

$24 + 3f - 3f < 9f - 3f$

$24 < 6f$

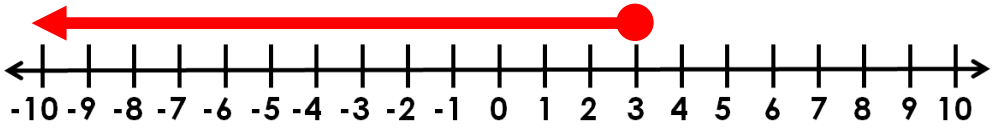
Answer: $4 < f$



12 $-4 + \frac{p}{3} \leq -3$

$-4 + 4 + \frac{p}{3} \leq -3 + 4$ $\quad 3 \cdot \frac{p}{3} \leq 1 \cdot 3$

Answer: $p \leq 3$

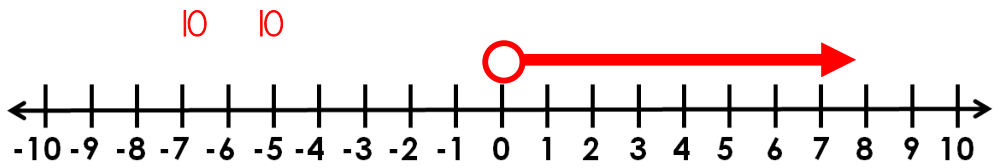


13 $10x + 2 > 2$

$10x + 2 - 2 > 2 - 2$

$\frac{10x}{10} > \frac{0}{10}$

Answer: $x > 0$

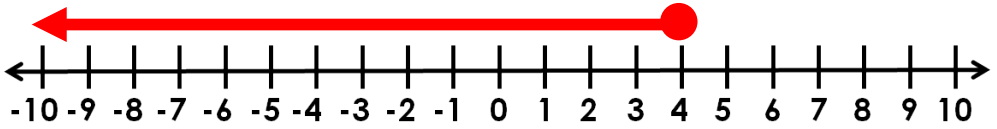


14 $26 \geq 4z + 10$

$26 - 10 \geq 4z + 10 - 10$

$\frac{16}{4} \geq \frac{4z}{4}$

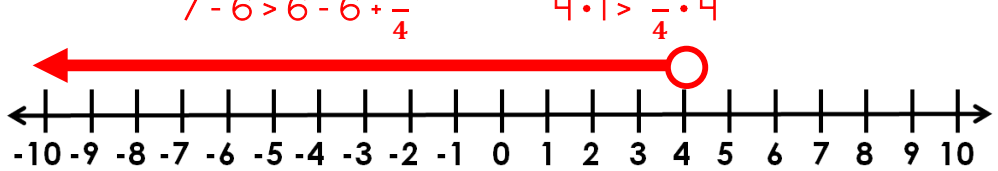
Answer: $4 \geq z$



15 $7 > 6 + \frac{h}{4}$

$7 - 6 > 6 - 6 + \frac{h}{4}$ $\quad 4 \cdot 1 > \frac{h}{4} \cdot 4$

Answer: $4 > h$

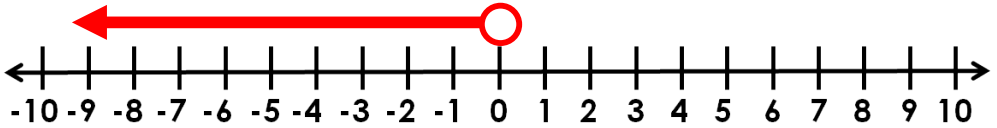


16 $3p + 12 < 12$

$3p + 12 - 12 < 12 - 12$

$\frac{3p}{3} < \frac{0}{3}$

Answer: $p < 0$



While graphing solutions on the number line, you can use > or ≥. Explain the difference between the two inequality symbols.

If you are graphing >, the answer is not one of the solutions. If you are graphing ≥, the answer is included as one of the solutions. For example, x > 7. The solutions would be *all real numbers greater than 7.* If your solutions was x ≥ 7, the solutions would be *all real numbers greater than or equal to 7.*