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# HW 4-7

## Solving Two-Step Inequalities

Int 1

Unit 4

**INSTRUCTIONS:** Solve each inequality using inverse operations, then graph your answer on the number line provided. Remember, you can check your answers.

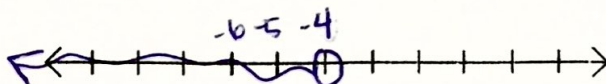
1)  $6n + 5 < 13$

$$n < \frac{4}{3}$$



5)  $17 < 5 - 3m$

$$m < -4$$



2)  $-6 \geq 14 - 5z$

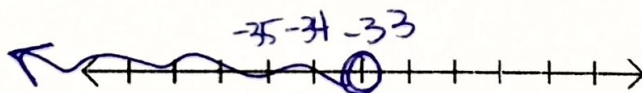
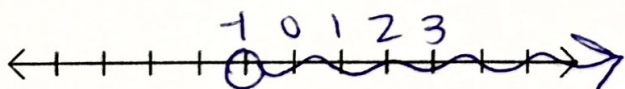
6)  $-2y - 6 \geq -18$

3)  $3p + (-7) > -10$

7)  $\frac{y-7}{8} < -5$

$$p > -1$$

$$y < -33$$



4)  $\frac{x}{14} + 5 \geq 15$

8)  $\frac{y+7}{-3} < -4$

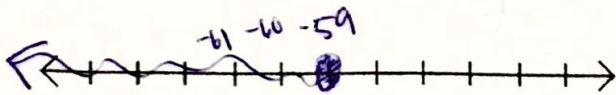
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**INSTRUCTIONS:** Solve each inequality using inverse operations, then graph your answer on the number line provided. Remember, you can check your answers.

9)  $\frac{y-5}{-8} \geq 8$

$y \leq -59$

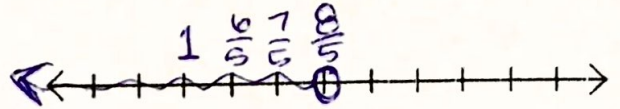


10)  $30 > \frac{x}{-6} + 23$

←+

11)  $5f + (-2) < 6$

$f < \frac{8}{5}$

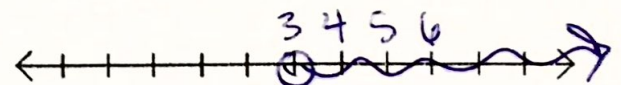


12)  $-6n + 5 < -4$

←

13)  $-3 - 7v < -24$

$v > 3$



**INSTRUCTIONS:** Solve each inequality using inverse operations.

14)

16)

15)  $\frac{r}{5} - 11 \geq -10$

$r \geq 5$

17)  $-16 + 2b < 13$

$b < \frac{29}{2}$

$b < 14\frac{1}{2}$

INSTRUCTIONS: Solve each inequality using inverse operations.

18)  $5 + \frac{n}{2} > 8$

23)  $\frac{p}{-1} + 6 \leq 15$

$p \geq -9$

19)  $-4(x-3) > -16$

$x < 7$

24)  $8 + \frac{v}{2} \geq 10$

20)  $-40 < 5 + 7x$

25)  $\frac{x+11}{-4} \geq -2$

$x \leq -3$

21)  $9(x+7) \geq 198$

$x \geq 15$

26)  $18 > 2(v+12)$

22)  $-6 > \frac{m}{3} - 13$

27)  $-4g - (-3) < 21$

$g > -\frac{9}{2}$

$g > -4\frac{1}{2}$