

Name: Key

4-7 Home
Solving Two
Inequalities

Int 1

INSTRUCTIONS: Solve each inequality using the inequality, then graph your answer on the number line. Write your answers.

1) $6n + 5 < 13$

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



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

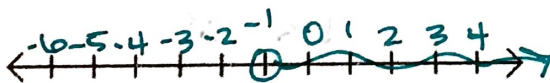
$4 \leq z$

or $z \geq 4$



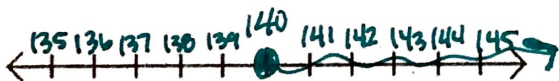
3) $3p + (-7) > -10$

$p > -1$



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

$x \geq 140$



INSTRUCTIONS: Solve each inequality using inequality. Remember, you can check your answer.

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

$$y \leq -59$$

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

$$-42 < x$$

$$\text{or } x > -42$$

$$11) \quad -1 + 4x \leq 31$$

$$x \leq 8$$

$$12) \quad \frac{r}{5} - 11 \geq -10$$

$$r \geq 5$$

$$13) \quad 5 + \frac{n}{2} > 8$$

$$n > 6$$