

HW 4-6

Solving Inequalities:
Multiplication & Division

Unit 4

Ant 1

Graph the following on a number line.

1) $x = 8$



2) $w < 11$



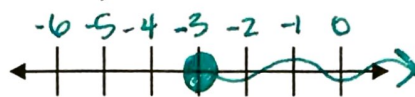
3) $100 < c$



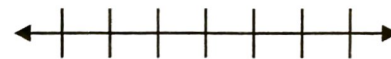
4) $y \geq -3$



5) $-3 \leq g$



6) $a < 22$



Solve each inequality using INVERSE OPERATIONS. Show your work.

7) $8x > -16$

$x > -2$

11) $12a \geq -24$

$a \geq -2$

8) $-8x > 16$

12) $-12 \leq 4a$

9) $7y < -35$

$y < -5$

13) $5 > \frac{x}{-2}$

$-10 < x$ $x > -10$

10) $\frac{r}{-3} \leq -4$

14) $-5x > \frac{3}{10}$

$$15) \quad \frac{r}{-3} \leq 6$$

$$r \geq -18$$

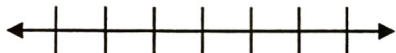


$$19) \quad \frac{1}{5}y > \frac{7}{10}$$

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

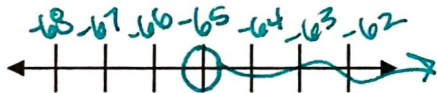
$$16) \quad -\frac{7}{8}x \leq \frac{7}{16}$$

$$20) \quad -5 > \frac{x}{7}$$



$$17) \quad 26 > -\frac{2}{5}h$$

$$h > -65$$



$$21) \quad 27 > -3x$$

$$x > -9$$

$$18) \quad -3.9h > -31.2$$

$$22) \quad -27 > 3x$$

