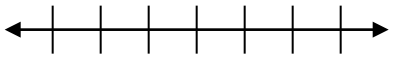
NAME: Period: SCORE:_____/_____=_____%=_____

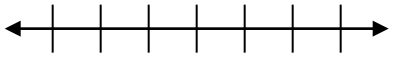
HW 4-6
Solving Inequalities:
Int 1 Multiplication & Division Unit 4

Graph the following on a number line.

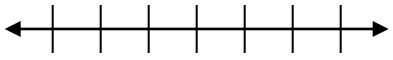
1) $x = 8$



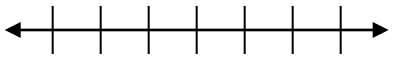
2) $y \geq -3$



3) $z > -4$

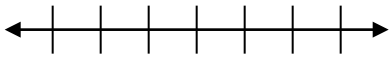


4) $5 < h$

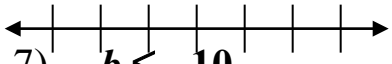


5) $w < 11$

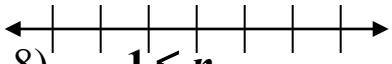
6) $-3 \leq g$



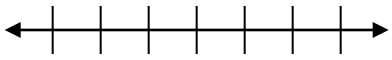
7) $b \leq -10$



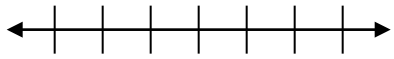
8) $-1 \leq n$



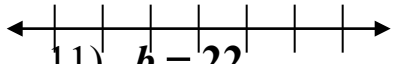
9) $100 < c$



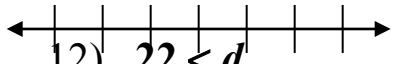
10) $a < 22$

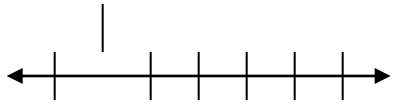


11) $b = 22$



12) $22 < d$





Solve each inequality using INVERSE OPERATIONS. Show your work.

13) $8x > -16$

14) $-8x > 16$

15) $7y < -35$

16) $12a \geq -24$

17) $-12 \leq 4a$

18) $5 > \frac{x}{-2}$

Solve each inequality using INVERSE OPERATIONS. Show your work.

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

20) $-5x > \frac{3}{10}$

21) $\frac{r}{-3} \leq 6$

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

23) $26 > -\frac{2}{5}h$

24) $-3.9h > -31.2$

25) $\frac{r}{7} \leq -7$

26) $72 > -9k$

27) $-60 < 6k$

28) $\mathbf{27 > -3x}$

29) $\mathbf{-27 > 3x}$

30) $\mathbf{26 < 13y}$

31) $\mathbf{60a \geq -30}$

32) $\mathbf{-48 \leq -4a}$

33) $\mathbf{-5 > \frac{x}{7}}$

34) $\mathbf{\frac{p}{-8} \leq 40}$

35) $\mathbf{\frac{1}{5}y > \frac{7}{10}}$

36) $\mathbf{\frac{1}{6}k \leq -8}$