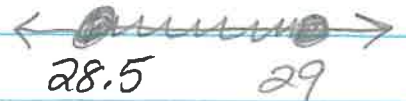


3.6 Part I

3.6 pg. 204 #10-22 even

10) $x \geq 28.5$ and $x \leq 29$
 $28.5 \leq x \leq 29$



12) $5 \leq y+2 \leq 11$

$$\begin{array}{r} 5 \leq y+2 \\ -2 \quad -2 \end{array} \qquad \begin{array}{r} y+2 \leq 11 \\ -2 \quad -2 \end{array}$$

$$3 \leq y \qquad y \leq 9$$

$y \geq 3$ and $y \leq 9$
 $3 \leq y \leq 9$



14) $15 \leq \frac{20+11+k}{3} \leq 19$

$$15 \leq \frac{20+11+k}{3}$$

$$\frac{20+11+k}{3} \leq 19$$

$$15 \leq \frac{31+k}{3}$$

$$\frac{31+k}{3} \leq 19$$

$$\left(15 \leq \frac{31+k}{3} \right) 3$$

$$3 \left(\frac{31+k}{3} \leq 19 \right)$$

$$45 \leq 31+k \\ -31 \quad -31$$

$$31+k \leq 57 \\ -31 \quad -31$$



$k \geq 14$ and $k \leq 26$
 $14 \leq k \leq 26$

$$-3 \leq \frac{6-q}{9} \leq 3$$

$$16) \quad -3 \leq \frac{6-q}{9} \quad \frac{6-q}{9} \leq 3$$
$$9 \left(-3 \leq \frac{6-q}{9} \right) \quad \left(\frac{6-q}{9} \leq 3 \right) 9$$

$$-27 \leq 6-q \quad 6-q \leq 27$$
$$\begin{array}{r} -6 \\ -6 \end{array} \quad \begin{array}{r} -6 \\ -6 \end{array}$$
$$-1 \left(-33 \leq -q \right) \quad \left(-q \leq 21 \right) -1$$

*FLIP *FLIP

$$33 \geq q$$

$$q \geq -21$$



$q \geq -21$ and $q \leq 33$
 $-21 \leq q \leq 33$

$$18) \quad \frac{5+m}{-5} > \frac{4}{-5} \quad \text{or} \quad \frac{7m}{7} < \frac{-35}{7}$$

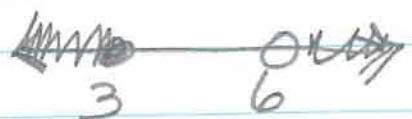


$m > -1$ or $m < -5$

$$20) \quad \frac{7-c}{-7} < \frac{1}{-7} \quad \text{or} \quad \frac{4c}{4} \leq \frac{12}{4}$$

$$-1 \left(-c < -6 \right)$$

*FLIP



$c > 6$ or $c \leq 3$
 $c \leq 3$ or $c > 6$

$$22) \quad 5z - 3 > 7 \quad \text{or} \quad 4z - 6 < -10$$

$$+3 \quad +3$$

$$+6 \quad +6$$

$$\underline{5z > 10}$$

$$\underline{4z < -4}$$

$$\underline{5} \quad \underline{5}$$

$$\underline{4} \quad \underline{4}$$

$$z > 2$$

or

$$z < -1$$

$$z < -1 \quad \text{or} \quad z > 2$$

~~z < -1~~

~~z > 2~~

-1

2