

Name: _____

Period: _____

Assignment: Chapter 3 Review Key

Digits work earns you credit, not just answers.

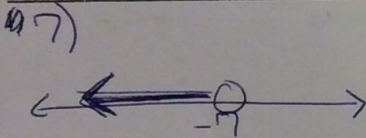
$$\begin{array}{r} 1) \quad 4z + 7 \geq 15 \\ \quad \underline{-7} \quad \underline{-7} \\ 4z \geq 8 \\ \quad \underline{4} \quad \underline{4} \end{array}$$

$$b.) z \geq 2$$

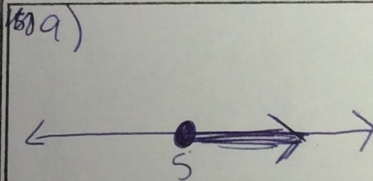
$$c.) z \text{ can} = 5$$

$$3) \quad c \leq 7$$

$$5) \quad g \leq 40$$

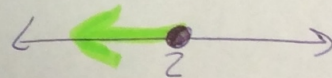


$$x < -7$$



$$x \geq -5$$

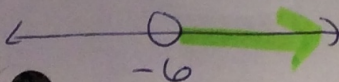
$$\begin{array}{r} 11) \quad z + 7 \leq 9 \\ \quad \underline{-7} \quad \underline{-7} \\ z \leq 2 \end{array}$$



$$13) \quad \left(\frac{3}{1}\right) \left(-\frac{1}{3}\right) x < (2) \left(-\frac{3}{1}\right)$$

(FLIP)

$$x > -6$$

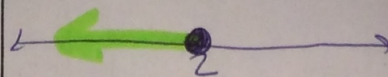


$$15) \quad -5 + 4t \leq 3$$

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

$$\frac{4t}{4} \leq \frac{8}{4}$$

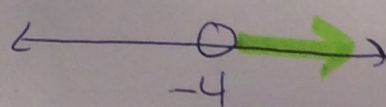
$$t \leq 2$$



$$17) \quad \left(-\frac{2}{7}\right) \left(-\frac{7}{2}\right) m < (14) \left(-\frac{2}{7}\right)$$

(FLIP)

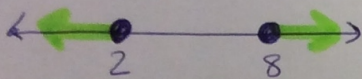
$$m > -4$$



19) $|x-5| \geq 3$

$$\begin{array}{r} x-5 \geq 3 \\ +5 \quad +5 \\ \hline x \geq 8 \end{array} \quad \begin{array}{r} x-5 \leq -3 \\ +5 \quad +5 \\ \hline x \leq 2 \end{array}$$

$x \geq 8$ OR $x \leq 2$



21)

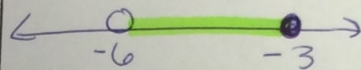
$$9 \leq 6-b < 12$$

$$\begin{array}{r} -6 \quad -6 \quad -6 \\ \hline 3 \leq -b < 6 \end{array}$$

$$\begin{array}{r} -1 \quad -1 \quad -1 \\ \hline -3 \geq b > -6 \end{array}$$

$$-3 \geq b > -6$$

$-3 \geq b > -6$

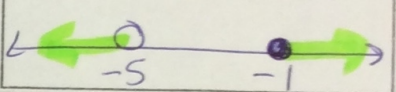


23)

$$\begin{array}{r} 4+3n \geq 1 \\ -4 \quad -4 \\ \hline 3n \geq -3 \end{array} \quad \text{OR} \quad \begin{array}{r} -5n > 25 \\ -5 \quad -5 \\ \hline -n > 5 \end{array}$$

$$\begin{array}{r} 3n \geq -3 \\ \hline n \geq -1 \end{array} \quad \begin{array}{r} -5n > 25 \\ \hline n < -5 \end{array}$$

$n \geq -1$ OR $n < -5$



25)

$$3(d-1) > -4$$

$$\begin{array}{r} 3d-3 > -4 \\ +3 \quad +3 \\ \hline 3d > -1 \end{array}$$

$$\begin{array}{r} 3d > -1 \\ \hline d > -\frac{1}{3} \end{array}$$

$d > -\frac{1}{3}$

27)

$$3(m+3)+4 \leq 15$$

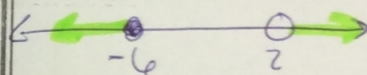
$$3m+9+4 \leq 15$$

$$\begin{array}{r} 3m+13 \leq 15 \\ -13 \quad -13 \\ \hline 3m \leq 2 \end{array}$$

$$\begin{array}{r} 3m \leq 2 \\ \hline m \leq \frac{2}{3} \end{array}$$

$m \leq \frac{2}{3}$

29a)



$x \leq -6$ OR $x > 2$

31)

$$|4k-2| = 11$$

$$\begin{array}{r} 4k-2 = 11 \\ +2 \quad +2 \\ \hline 4k = 13 \end{array}$$

$$\begin{array}{r} 4k = 13 \\ \hline k = \frac{13}{4} \end{array}$$

$$\begin{array}{r} 4k-2 = -11 \\ +2 \quad +2 \\ \hline 4k = -9 \end{array}$$

$$\begin{array}{r} 4k = -9 \\ \hline k = -\frac{9}{4} \end{array}$$

$k = \frac{13}{4}$ OR $k = -\frac{9}{4}$

33)

$$\begin{array}{r} |3c+1|-4 = 13 \\ +4 \quad +4 \\ \hline 3c+1 = 17 \end{array}$$

$$\begin{array}{r} 3c+1 = 17 \\ -1 \quad -1 \\ \hline 3c = 16 \end{array}$$

$$\begin{array}{r} 3c = 16 \\ \hline c = \frac{16}{3} \end{array}$$

$$\begin{array}{r} 3c+1 = -17 \\ -1 \quad -1 \\ \hline 3c = -18 \end{array}$$

$$\begin{array}{r} 3c = -18 \\ \hline c = -6 \end{array}$$

$c = \frac{16}{3}$ OR $c = -6$

35)

$$ax-1 < 3$$

vs.

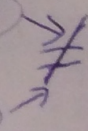
$$x < \frac{4}{a}$$

$a=2$

$$\begin{array}{r} 2x-1 < 3 \\ +1 \quad +1 \\ \hline 2x < 4 \end{array}$$

$$x < 2$$

$$\begin{array}{r} x < \frac{4}{2} \\ \hline x < 2 \end{array}$$



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38)

$$\begin{array}{r} 55b + 165 \leq 2000 \\ -165 \quad -165 \\ \hline \end{array}$$

$$\frac{55b}{55} \leq \frac{1835}{55}$$

33 boxes

39)

$$\text{width: } |w - 7.625| \leq 0.005$$

$$7.620 \leq w \leq 7.630$$

$$\text{length: } |l - 11.125| \leq 0.005$$

$$11.120 \leq l \leq 11.130$$

3)

4)

5)

6)

7)

8)

9)