

Student Name \_\_\_\_\_  
 Parent Sign \_\_\_\_\_

Pre-Alg.  
 Ch. 7 Review

$$\begin{array}{r} 1) 4x+8=3x-1 \\ -3x \quad -3x \\ \hline x+8=-1 \\ -8 \quad -8 \\ \hline x=-9 \end{array}$$

(C)

$$\begin{array}{r} 2) 13a+12=8a-13 \\ -8a \quad -8a \\ \hline 5a+12=-13 \\ -12 \quad -12 \\ \hline 5a=-25 \\ \frac{5a}{5} = \frac{-25}{5} \end{array}$$

$$a = -5$$

(B)

$$\begin{array}{r} 3) 7a-4=3(a+9)+4a \\ 7a-4=3a+27+4a \\ 7a-4=7a+27 \\ -7a \quad -7a \\ \hline -4=27 \end{array}$$

false, (X) (D)

$$\begin{array}{r} 4) 2(k-4)=\frac{1}{2}(4k-16) \\ \rightarrow \quad \rightarrow \\ 2k-8=2k-8 \\ -2k \quad -2k \\ \hline -8=-8 \end{array}$$

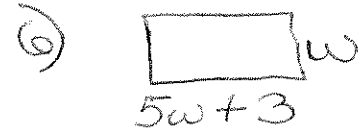
true, all numbers

(C)

$$\begin{array}{r} 5) 5t-9=2t+3 \\ -2t \quad -2t \\ \hline 3t-9=3 \\ +9 \quad +9 \\ \hline 3t=12 \\ \frac{3t}{3} = \frac{12}{3} \end{array}$$

$$t=4$$

(D)



$$P = 2(\text{length}) + 2(\text{width})$$

$$150 = 2(5w+3) + 2(w)$$

$$150 = 10w + 6 + 2w$$

$$150 = 12w + 6$$

$$\frac{144}{12} = \frac{12w}{12}$$

$$12 = w(\text{width})$$

length

$$\begin{array}{l} 5w+3 \\ 5(12)+3 \\ 60+3 \\ 63 \end{array}$$

(A)

7)  $1.75g > 30$   
 ↑  
 more than

(C)

8)  $a+18 < 30$   
 ↑  
 less than

(C)

9)  $4k-7 \leq 30$ , if  $k=9$   
 $4(9)-7 \leq 30$   
 $36-7 \leq 30$   
 $29 \leq 30$   
 true

(B)

10) closed circle  
 so use  $\leq$  or  $\geq$   
 shaded numbers are  
 more than -1  
 so,  $x \geq -1$   
 (can use any letter)

(A)

11)  $y-5 \geq -8$   
 $+5 \quad +5$   
 $y \geq -3$

(B)

12)  $m - \frac{1}{3} < 1$   
 $+ \frac{1}{3} \quad + \frac{1}{3}$   
 $m < 2\frac{2}{3}$

(C)

13)  $\frac{13y}{13} > \frac{39}{13}$   
 $y > 3$

(D)

14)  $\frac{x}{-3.2} < -19$   
 $x > 60.8$   
 (reverse)

(C)

$$\begin{array}{r} 19 \\ \times 3.2 \\ \hline 38 \\ 570 \\ \hline 60.8 \end{array}$$

$$15) \begin{array}{r} (-3) \\ -\frac{t}{3} < 27 \\ (-3) \end{array}$$

$$t > -81$$

(reverse)

(B)

$$16) \begin{array}{r} -6x - 3 > -21 \\ +3 \quad +3 \end{array}$$

$$\frac{-6x}{-6} > \frac{-18}{-6}$$

$$x < 3$$

(reverse)

(D)

$$17) \begin{array}{r} 5 + 0.4s > 30 \\ -5 \quad -5 \end{array}$$

$$\frac{0.4s}{0.4} > \frac{25}{0.4}$$

$$s > 62.5$$

(B)

4 | 250.0  
24  
10  
20  
20

$$18) \begin{array}{r} 8 + y \leq 41 \\ -8 \quad -8 \end{array}$$

$$y \leq 33$$

(A)

$$19) 7(10) + .10s \geq 200$$

$$\begin{array}{r} 70 + .10s \geq 200 \\ -70 \quad -70 \end{array}$$

$$\frac{.10s}{.10} \geq \frac{130}{.10}$$

$$s \geq 1300$$

(D)

note:  
10% = .10

$$10 \overline{) 13000}$$

$$\frac{13000}{10}$$

$$\frac{30}{30}$$

$$20) \begin{array}{r} 5n - 8 < 92 \\ +8 \quad +8 \end{array}$$

$$\frac{5n}{5} < \frac{100}{5}$$

$$n < 20$$

(C)

Bonus

$$5(s+6) = 3(s-2)$$

$$\begin{array}{r} 5s + 30 = 3s - 6 \\ -3s \quad -3s \end{array}$$

$$\begin{array}{r} 2s + 30 = -6 \\ -30 \quad -30 \end{array}$$

$$\frac{2s}{2} = \frac{-36}{2}$$

(S = -18)