

Student Name _____

Parent Sign _____

Pre-Alg.
1st 9 Weeks
Test Review

1) $\begin{array}{c|c|c|c} 6 & 8 & 10 & 12 \\ \hline 90 & 120 & 150 & ? \\ \hline +30 & +30 & & \end{array}$

$$\begin{array}{r} 150 \\ +30 \\ \hline 180 \end{array}$$

(D)

2) $d = rt$ *about*
means you can estimate
 $245 = 55t$
* $\frac{250}{50} = \frac{50t}{50}$
 $5 = t$ (C)

3) $7[(30-14) \div 2]$
 $7[16 \div 2]$
 $7[8]$
56 (A)

4) $x + (5y + 5z)$
 $14 + (5 \cdot 5 + 5 \cdot 6)$
 $14 + (25 + 30)$
 $14 + (55)$
69 (D)

5) $2x - 4$ (C)

6) $24 + 5 = 5 + 24$
order changed
commutative (A)

7) $31 + (4 + 17) = (31 + 4) + 17$
grouping changed
associative (B)

8) $(5 + x) + 10$
 $(x + 5) + 10$
 $x + (5 + 10)$
 $x + 15$ (A)

9) $(8 \cdot b) \cdot 4$
 $(b \cdot 8) \cdot 4$
 $b \cdot (8 \cdot 4)$
 $b \cdot 32$
32b (C)

10) $-12 < 19$ (C)

11) $\{0, -20, 2, 15, -15\}$
 $\{-20, -15, 0, 2, 15\}$ (B)

12) $|x| + |y|$
 $|9| + |-20|$
 $9 + 20$
29 (A)

13) same, add
 $-20 + (-8)$
 -28 (D)

14) diff, sub.
 $24 + (-13)$
11 (C)

15) same, add
 $-35 - 9$
 -44 (B)

* 13-15: add/sub, use sign of bigger number

16) $10 \cdot (-14)$
 -140 (B)

17) $-24 \div (-4)$
6 (D)

18) $7(x + 6)$
 $7 \cdot x + 7 \cdot 6$
 $7x + 42$ (B)

* 16-17: mult/div.
same = +
diff = -

$$19) \begin{array}{r} x + 27 = -12 \\ -27 \quad -27 \\ \hline x = -39 \end{array} \begin{array}{l} \text{same} \\ \text{add} \end{array} \quad 20) \frac{4b}{4} = \frac{8}{4} \quad 21) \frac{b}{4} = 8 \quad (4)$$

$$b = 2 \quad b = 32$$

(D) (A) (D)

$$22) \begin{array}{r} \frac{x}{3} - 12 = -21 \\ +12 \quad +12 \\ \hline \frac{x}{3} = -9 \end{array} \begin{array}{l} \text{diff} \\ \text{sub} \end{array} \quad (3)$$

$$x = -27$$

(D)

$$23) \begin{array}{r} 7n + 22 = 1 \\ -22 \quad -22 \\ \hline 7n = -21 \\ \frac{7n}{7} = \frac{-21}{7} \end{array}$$

$$n = -3$$

(B)

$$24) P = 2l + 2w$$

$$P = 2 \cdot 9 + 2 \cdot 4$$

$$P = 18 + 8$$

$$P = 26 \text{ m}$$

(C)

$$25) A = lw$$

$$A = 20 \cdot 8$$

$$A = 160 \text{ mi}^2$$

(B)