

#2

NAME _____

DATE _____

PERIOD _____

Pre-Algebra Extra Practice
Chapter 4.2

<p>1) $5x - 12 = -12$</p> $\frac{4x}{4} = \frac{-12}{4}$ $\boxed{x = -3}$	<p>2) $-6 = a + a + 4$</p> $\begin{array}{r} -6 = 2a + 4 \\ -4 \quad -4 \end{array}$ $\frac{2a}{2} = \frac{-10}{2}$ $\boxed{a = -5}$	<p>3) $-9 - b + 8b = -23$</p> $\begin{array}{r} -9 + 7b = -23 \\ +9 \quad +9 \end{array}$ $\frac{7b}{7} = \frac{-14}{7}$ $\boxed{b = -2}$
<p>4) $36 = 4 - 5y - 12$</p> $\begin{array}{r} 36 = -4y - 12 \\ +12 \quad +12 \end{array}$ $\frac{48}{-4} = \frac{-4y}{-4}$ $\boxed{y = -12}$	<p>5) $-3(2y + 7) = -18$</p> $\begin{array}{r} -6y - 21 = -18 \\ +21 \quad +21 \end{array}$ $\frac{-6y}{-6} = \frac{3}{-6}$ $\boxed{y = -\frac{1}{2}}$	<p>6) $16 = 2(x - 1) - x$</p> $16 = 2x - 2 - x$ $\begin{array}{r} 16 = x - 2 \\ +2 \quad +2 \end{array}$ $\boxed{x = 18}$
<p>7) $21 = 2(4a + 2)$</p> $\begin{array}{r} 21 = 8a + 4 \\ -4 \quad -4 \end{array}$ $\frac{17}{8} = \frac{8a}{8}$ $\boxed{a = 2\frac{1}{8}}$	<p>8) $8 - 3(x - 4) = 4$</p> $8 - 3x + 12 = 4$ $20 - 3x = 4$ $\begin{array}{r} -20 \quad -20 \end{array}$ $\frac{-3x}{-3} = \frac{-16}{-3}$ $\boxed{x = 5\frac{1}{3}}$	<p>9) $3(n - 2) = 36$</p> $3n - 6 = 36$ $\begin{array}{r} +6 \quad +6 \end{array}$ $3n = 42$ $\boxed{n = 14}$

10)

$$-2(a+3) - a = 0$$

$$-2a - 6 - a = 0$$

$$-3a - 6 = 0$$

$$\underline{+6} \quad \underline{+6}$$

$$-3a = 6$$

$$\boxed{a = -2}$$

11)

$$3(2x+1) + x = -39$$

$$6x + 3 + x = -39$$

$$7x + 3 = -39$$

$$\underline{-3} \quad \underline{-3}$$

$$7x = -42$$

$$\boxed{x = -6}$$

12)

$$m + 4(2m - 3) = -3$$

$$m + 8m - 12 = -3$$

$$9m - 12 = -3$$

$$\underline{+12} \quad \underline{+12}$$

$$9m = 9$$

$$\boxed{m = 1}$$

13)

$$8a + 4a = 144$$

$$12a = 144$$

$$\underline{12} \quad \underline{12}$$

$$\boxed{a = 12}$$

14)

$$4d + 2d - 3d = 27$$

$$3d = 27$$

$$\underline{3} \quad \underline{3}$$

$$\boxed{d = 9}$$

15)

$$5b + 11 - 2b = 50$$

$$3b + 11 = 50$$

$$\underline{-11} \quad \underline{-11}$$

$$3b = 39$$

$$\boxed{b = 13}$$