

#1

NAME _____

DATE _____

PERIOD _____

Pre-Algebra Extra Practice
Chapter 4.1

<p>1) $12k + 7 = 31$ $\quad \underline{-7} \quad \underline{-7}$</p> <p>$\frac{12k}{12} = \frac{24}{12}$</p> <p>$k = 2$</p>	<p>2) $13n + 42 = 81$ $\quad \underline{-42} \quad \underline{-42}$</p> <p>$\frac{13n}{13} = \frac{39}{13}$</p> <p>$n = 3$</p>	<p>3) $56 = 17p - 29$ $\quad \quad \quad \underline{+29} \quad \quad \quad \underline{+29}$</p> <p>$\frac{17p}{17} = \frac{85}{17}$</p> <p>$p = 5$</p>
<p>4) $\frac{w}{4} - 21 = -3$ $\quad \quad \quad \underline{+21} \quad \quad \quad \underline{+21}$</p> <p>$4 \times \frac{w}{4} = 18 \times 4$</p> <p>$w = 72$</p>	<p>5) $\frac{h}{9} - 19 = -10$ $\quad \quad \quad \underline{+19} \quad \quad \quad \underline{+19}$</p> <p>$9 \times \frac{h}{9} = 9 \times 9$</p> <p>$h = 81$</p>	<p>6) $\frac{d}{12} + 25 = 29$ $\quad \quad \quad \underline{-25} \quad \quad \quad \underline{-25}$</p> <p>$12 \times \frac{d}{12} = 4 \times 12$</p> <p>$d = 48$</p>
<p>7) $12 = \frac{a}{36} + 17$ $\quad \quad \quad \underline{-17} \quad \quad \quad \underline{-17}$</p> <p>$36 \times -5 = \frac{a}{36} \times 36$</p> <p>$-180 = a$</p> <p>$a = -180$</p>	<p>8) $18 - r = 42$ $\quad \quad \quad \underline{-18} \quad \quad \quad \underline{-18}$</p> <p>$-r = 24$</p> <p>$r = -24$</p>	<p>9) $80 = 23 - 3v$ $\quad \quad \quad \underline{-23} \quad \quad \quad \underline{-23}$</p> <p>$\frac{-3v}{-3} = \frac{57}{-3}$</p> <p>$v = -19$</p>

10)

$$\begin{array}{r} -2q - 63 = 47 \\ +63 \quad +63 \end{array}$$

$$\begin{array}{r} -2q = 110 \\ \div 2 \quad \div 2 \end{array}$$

$$\boxed{q = -55}$$

11)

$$\begin{array}{r} -\frac{x}{2} + 4 = 12 \\ \quad \quad -4 \quad -4 \end{array}$$

$$\times -\frac{x}{2} = 8 \times 2$$

$$-x = 16$$

$$\boxed{x = -16}$$

12)

$$\begin{array}{r} -5 = -19 - \frac{x}{7} \\ +19 \quad +19 \end{array}$$

$$7 \times 14 = -\frac{x}{7} \times 7$$

$$-x = 98$$

$$\boxed{x = -98}$$

13)

$$495 = 150 + 3p$$

$$\begin{array}{r} -150 \quad -150 \end{array}$$

$$\begin{array}{r} 345 = 3p \\ \div 3 \quad \div 3 \end{array}$$

$$\boxed{p = 115}$$

14)

$$7 - 4y = 19$$

$$\begin{array}{r} -7 \quad \quad -7 \end{array}$$

$$-4y = 12$$

$$\begin{array}{r} \div 4 \quad \div 4 \end{array}$$

$$\boxed{y = -3}$$

15)

$$\frac{x}{2} - 3 = 1$$

$$\begin{array}{r} +3 \quad +3 \end{array}$$

$$\times \frac{x}{2} = 4 \times 2$$

$$\boxed{x = 8}$$