

#40

NAME _____

DATE _____

PERIOD _____

Pre-Algebra Extra Practice
Chapter 4.5

<p>1) $25u + 74 = 23u + 92$</p> $\begin{array}{r} 25u + 74 = 23u + 92 \\ -23u \quad \quad -23u \\ \hline 2u + 74 = 92 \\ -24 \quad -74 \\ \hline 2u = 18 \\ \boxed{u=9} \end{array}$	<p>2) $-5k - 19 = 5 - 13k$</p> $\begin{array}{r} -5k - 19 = 5 - 13k \\ +5k \quad \quad +5k \\ \hline -19 = 5 - 8k \\ -5 \quad -5 \\ \hline -24 = -8k \\ -8 \quad -8 \\ \hline \boxed{k=3} \end{array}$
<p>3) $-11y + 32 = 104 - 5y$</p> $\begin{array}{r} -11y + 32 = 104 - 5y \\ +5y \quad \quad +5y \\ \hline -6y + 32 = 104 \\ -32 \quad -32 \\ \hline -6y = 72 \\ \boxed{y=-12} \end{array}$	<p>4) $-15n + 16 = 86 - 29n$</p> $\begin{array}{r} -15n + 16 = 86 - 29n \\ +15n \quad \quad +15n \\ \hline 16 = 86 - 14n \\ -86 \quad -86 \\ \hline 70 = -14n \\ \boxed{n=-5} \end{array}$
<p>5) $25t = 5(5t + 1)$</p> $\begin{array}{r} 25t = 25t + 5 \\ -25t \quad -25t \\ \hline 0 = 5 \\ \boxed{\text{No solution}} \end{array}$	<p>6) $13 - 3p = -5(3 + 2p)$</p> $\begin{array}{r} 13 - 3p = -15 - 10p \\ +3p \quad \quad +3p \\ \hline 13 = -18 - 7p \\ +15 \quad +15 \\ \hline 28 = -7p \\ \boxed{p=-4} \end{array}$

$$7) \begin{array}{r} -24s - 53 = 39 - s \\ + s \qquad \qquad \qquad + s \end{array}$$

$$-23s - 53 = 39$$

$$+ 53 \quad + 53$$

$$-23s = 92$$

$$\boxed{s = -4}$$

$$8) \begin{array}{r} 14a - 93 = 49 - 57a \\ -14a \qquad \qquad \qquad -14a \end{array}$$

$$-93 = 49 - 71a$$

$$-49 \quad -49$$

$$-142 = -71a$$

$$\boxed{a = 2}$$

$$9) 7(2p+1) = 14p+7$$

$$14p+7 = 14p+7$$

Every # is a solution

$$10) 8v = 2(4v+2)$$

$$8v = 8v+4$$

No solution

$$11) 3x+6 = 3(2+x)$$

$$3x+6 = 6+3x$$

Every # is a solution

$$12) 2(-4h-13) = 37+13h$$

$$-8h-26 = 37+13h$$

$$-13h \qquad \qquad \qquad -13h$$

$$-21h-26 = 37$$

$$+26 \quad +26$$

$$-21h = 63$$

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