Algebra 1 ECA Remediation

Name Answer Key

Homework 2.3 © 2014 Kuta Software LLC. All rights reserved. Solve each equation.

1)
$$38 + 2n = 6(3n + 1)$$

 $38 + 2n = 6(3n + 1)$
 $32 = 16n$
 $32 = 16n$
 $32 = 16n$
 $32 = 16n$
 $32 = 16n$

3) 5x - 24 = -2(-4x - 8) + 5x 5x - 24 = 8x + 16 + 5x - 24 = 8x + 16 5x - 24 = 13x + 16 - 16 - 16-5x - 5x - 5x - 5 = x

5)
$$v - 4(v + 4) = 4v - 8(2 - 8v)$$

$$v - 4v - 16 = 4v - 16 + 64v$$

$$-3v - 16 = 68v - 16 \qquad 0 = 71v$$

$$+3v \qquad + 3v \qquad 71 \qquad 71$$

$$-16 = 71v - 16 \qquad 0 = v$$

$$+16 \qquad +16$$

$$0 = 71v$$

Solve each proportion.

$$\frac{2}{7} \frac{(-p-10)}{2} = \frac{(p-1)}{2} = \frac{(p-1)}{2} = \frac{(p-1)}{2} = \frac{(-p-1)}{2} = \frac{(-p-1)}{2}$$

4)
$$-2(7m + 1) = -6(3m - 5)$$

 $-14m - 2 = -18m + 30$
 $+18m$
 $4m - 2 = 30$
 $+2 + 2$
 $4m = 32$

- <u>32</u> 4 8

6)
$$8(6+4x) = 4(6x+4)$$

$$48 + 32x = 24x + 16$$

$$-24x - 24x$$

$$48 + 8x = 16$$

$$-48 - 48$$

$$\frac{8x}{8} = -32$$

$$\frac{8x}{8} = -32$$

$$\frac{8x}{8} = -32$$

$$\frac{8x}{8} = -48$$

$$\frac{3}{3}(3a + 4) = \frac{(2a - 16)}{3}$$

$$3(3a + 4) = \frac{(2a - 16)}{3}$$

$$3(3a + 4) = 2a - 16$$

$$2a - 2a$$

$$7a + 12 = -16$$

 $-12 - 12$
 $7a = -28$
 $7a = -28$

$$a = -4$$

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8

Solve each equation.

$$10) -2.1m + 3.5(4.3m - 0.6) = -27.4764 + 5m$$

$$11) -13.964 + 0.4n = -5.9(2 + 3.6n)$$

$$-2.1m + 15,05m - 2.1 = -27.4764 + 5m$$

$$12,95m - 2.1 = -27.4764 + 5m$$

$$-5m - 5m - 5m - 7.95m = -25.3764$$

$$-13.964 + 0.4n = -11.8 - 21.24n$$

$$+21.24n$$

$$+21.24n$$

$$+21.24n$$

$$-13.964 + 21.64n = -11.8$$

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$$-0.3x = -5.9x - 3.2(1.8 - 1.9x)$$

$$-4.944 - 0.3x = -5.9x - 5.76$$

$$-4.944 = 0.48x - 5.76$$

$$+5.76$$

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Find the mistake that was made when solving each equation. Explain why the work shown is incorrect. Solve each equation correctly.

13) $-84 = -6(4r - 2)$ -84 = -24r - 12	14) $2 - 4(1 + 3n) = 70$ 2 - 4 - 12n = 70	2-4(1+3n)=70
-72 = -24r 3 = r	6 - 12n = 70 -12n = 64	2 - 4 - 12n = 70
3 = r - 84 = -6(4r - 2) - 84 = -24r + 12	$n = -\frac{16}{3}$	-2 - 12n = 70 +2 $+2$
-12 -12	3	-12n = 72
$\begin{pmatrix} -2 & is & a \end{pmatrix} = \begin{pmatrix} -96 &= -24r \\ -2y &= -2y \end{pmatrix}$	\sim	-12 -12
4 = r	2 + -4 = -2	h = -6
	Enot 6	

$$\begin{array}{rcl}
15) & -5(-3+2x) = 65 \\
15-10x = 65 \\
-10x = 50 \\
x = -500 \\
\end{array}$$

$$\begin{array}{rcl}
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