Algebra 1 ECA Remediation

Name Answer Key

2) 8n + 5(1 + 9n)

8n+5+45n

53n+5

Review Worksheet - Day 6 © 2014 Kuta Software LLC. All rights reserved. Simplify each expression.

1) 4(3x+5)

12×+20

3)
$$-(5k-8) + 5(k-8)$$

-5K+8+5K-40
-32

Solve each equation.

4) $8(5+p)-2p = 38+8p$ 40+8p-2p = 38+8p 40+6p = 38+8p 40+6p = 38+8p -6p -6p -6p 1=p	5) -4.5(m - 2.75) - 6.2 = -10.355 - 7.4m -4.5m + 12.375 - 6.2 = -10.355 - 7.4m -4.5m + 6.175 = -7.4m - 10.355 +7.4m + 7.4m
40 = 38 + op	$2,9m + 6.175 = -10,355 \\ -6.175 - 6.175$
$ \begin{array}{c} (3) \\ (2n-5) \\ (3) \\ (2n-5) \\ (3) $	$\frac{2.9m}{2.9} = -\frac{16.53}{2.9}$
5n-5=-6 $+5+5$	m = -5.7

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

7) $2(p+5) = 34 - p$ 2p + 10 = 34 - p p + 10 = 34	2(p+5) = 34-p 2p + 10 = 34-p +p $+p$
<i>p</i> = 24	3p + 10 = 34 -10 -10
	$\frac{3p}{3} = \frac{24}{3}$ $p = 8$

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-1-

Solve each proportion.

$$8)\frac{(x+4)}{8} = \frac{7}{9} \qquad \begin{array}{c} 9(x+4) = 7(8) \\ 9x + 3b = 5b \\ -36 - 36 \\ \hline 9x = 20 \\ \hline 9 \\ \hline 9$$

Solve each equation for the indicated variable.

10)
$$V = \pi r^2 \cdot h$$
, solve for h

$$\frac{\sqrt{2}}{\pi r^2} = h$$

$$\frac{\sqrt{2}}{\pi r^2} = h$$

9)
$$\frac{6}{4} = \frac{n}{(n-3)}$$

 $6(n-3) = 4(n)$
 $6n-18 = 4n$
 $-4n$
 $-4n$
 $-4n$
 $2n-18 = 0$
 $+18 + 18$
 $\frac{2n}{2} = 18$
 $2 = 9$

Solve each inequality.

11) $4(6v+3) \ge -18 - 6v$	12) $-6x + 8(x + 1) \ge 3(x + 4)$
24v+122-18-6v	-6x + 8x + 8' = 3x + 12
$+6v$ $+6v$ $V \ge -1$	2x + 8 = 3x + 12
$30y + 12 \ge -18$ -12 -12	-2x -2x
30V = -30	$8 \ge x + 12$ -12 -12
Solve each compound inequality.	$-4 \ge X$

13) $33 \le -10v + 3 \le 73$

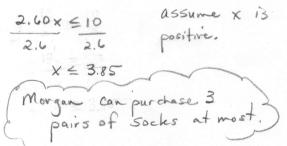
Write an inequality that can be used to solve each problem, and solve the inequality.

- 14) Morgan spent \$13 on 5 pairs of socks
 - A. Write an inequality that can be used to determine the maximum number of pairs of socks that Morgan can puchase with $10. \frac{4}{5} = unit price$ X = the # ofpairs of socks

$$\frac{1}{2.60} = purchased$$

$$\frac{2.60 \times \leq 10}{2.60 \times \leq 10}$$
What is the maximum number of pairs

B. What is the ma of socks that Morgan can buy with \$10?



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- 15) Oscar can rent a bike from Zach's Bike shop with a \$15 deeposit plus an hourly fee. Oscar pays \$32.85 to rent a bike for 7 hours.
 - A. Write an inequality that can be used to determine how long you can rent a bike Cost = 32,85 for with \$40. h = hourly rate 32.85= 15+7h h= \$2.55 hours =7 #15 deposit 17.85 = 7h $40 \ge 15 + x(2.55) x = \pm of$ B. What is the maximum number of hours hours rented
 - that a bike can be rented for with \$40?

$$40 \ge 15 + 2.55 \times$$

$$-15 - 15$$

$$25 \ge 2.55 \times$$

$$7.80 \ge 1$$

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