13/13/2008 12/13/2008

Algebra I- Horton Page 1

SOLUTIONS

①
$$3x + 2 = 17$$

 $3x = 15$
 $x = 5$ ②

3
$$\frac{12}{16} = \frac{3}{4} = 0.75$$
 A

(5)
$$M = \frac{1920-8}{42-2} = \frac{1912}{40} = \frac{239}{5}$$
 (6)

$$6 - 2x^3 + x^2 - x - 6$$

①
$$C = \frac{5}{9}(50-32)$$

= $\frac{5}{9}(18)$

Herton will reach the bottom in $\frac{260}{10}$ = 26 seconds. Vlad much reach Horton in 26-10 = 16 seconds. $\frac{260}{16}$ = 16.25 seconds. ©

(15)
$$A_{exal} : (x-1)(x-3)$$

$$= x^2 - 4x + 3$$
 $A_{whole} = (x+3)(x+1)$

$$= x^2 + 4x + 3$$
 $A_{sidewalk} = (x^2 + 4x + 3) - (x^2 - 4x + 3)$

$$= 8x = 32$$

$$= 4x = 4$$

Chiles mini mu 13/13/2008

Algebra I- Horton Heard who? page 2

$$\begin{array}{ll}
\text{(6)} & \frac{SOLUTIONS}{SOLUTIONS} \\
\frac{(.15)(2) + (.3)(3) + (0)(5)}{5 + 2 + 3} \\
\frac{.3 + .9}{10} = \frac{1.2}{10} = \frac{12}{100} = 12\%
\end{array}$$

$$\underbrace{21}_{2} \underbrace{\frac{3}{3y}}_{2} = 5 \cdot \frac{3}{2} \implies \frac{x}{y} = \frac{15}{2}$$

$$\underbrace{\frac{1}{2} \frac{-9y}{y}}_{2} = \frac{7x}{y} - \frac{9y}{y} = \frac{7x}{y} - 9$$

$$= 7 \left(\frac{15}{2}\right) - 9 = \frac{105}{2} \cdot \frac{18}{2} = \frac{87}{2}$$

$$(22) \int (a+b)^2 = \sqrt{64}$$

 $a+b = 8$ ©

(23) The mayor and Jajo will take I hour to reach each other Therefore, the fly will travel 24 miles. ©

$$\begin{array}{rcl}
(9) & 4x - 3y & = -3 \\
 & 6x + 3y = -27 \\
 & 10x & = -30 \\
 & x & = -3 \\
 & 4(-3) - 3y = -3 \\
 & -12 - 3y = -3
\end{array}$$

$$6x + 3y = -27$$

$$10x = -30$$

$$x = -3$$

$$4(-3) - 3y = -3$$

$$-12 - 3y = -3$$

$$-3y = 9$$

$$y = -3$$

(24) 8.4 × 10-3 B

②
$$|25^{\gamma} = (5^{3})^{\gamma} = (5^{\gamma})^{3} = (9)^{3} = 129$$

②
$$\%$$
 must be $+$ or \times since $\%$ Add the 3 equal $\%$ be $\%$ a. The next sample together to get is the distributive property $22x+22y+22z=22$, meaning \diamondsuit is \times and $\%$ is $+$. Therefore, $\times +y+z=$ Also $\%$ is $+$ in $+$ is $+$ in $+$ i

(28) Add the 3 equations together to get Therefore, X+y+ 2=1 @

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Algebra I- Horton Heard Who? page 3

SOLUTIONS

$$5x - 8 = -28$$

$$5x = -20$$

$$x = -4$$