

Key

Math 1

Lesson 1-1 & 1-2 Review

Name _____ Date _____

Nearest thousandth!

1. $2(x-3) = 3(2x+4) + 12x$, Solve for x

$2x - 6 = 6x + 12 + 12x$

$2x - 6 = 18x + 12$

$\frac{-18}{16} = \frac{16x}{16}$

$x = -1.125$

3. For the equation $\frac{m}{x} = y$, solve for x.

$m = yx$

$\frac{m}{y} = x$

5. For the equation $\frac{m(5n-4)}{m} = \frac{7ym}{x}$ solve for n.

$5n - 4 = \frac{7my}{x}$

$5n = \frac{7my}{x} + 4$

$n = \frac{7my}{5x} + \frac{4}{5}$

7. Solve for x: $14 = \frac{14x+1}{x}$

$14x = 14x + 1$

$0 = 1$

No solution

9. Solve $D = \frac{11}{5}(P-15)$ for P

$5D = 11(P-15)$

$\frac{5D}{11} = P - 15$

$\frac{5D}{11} + 15 = P$

2. Solve for x, $6 - \frac{5}{2}(2x+6) = \frac{4}{9}x - 12$

$108 - 45(2x+6) = 8x - 216$

$108 - 90x - 270 = 8x - 216$

$-162 - 90x = 8x - 216$

$54 = 98x$ $x \approx 0.551$

4. For the equation $kv - m = pg^3$, solve for v

$Kv = pg^3 + m$

$v = \frac{pg^3 + m}{k}$

6. $2(x-3) = 3(2x^2+4) + 2x$, solve for x

$2x - 6 = 6x^2 + 12 + 2x$

$-6 = 6x^2 + 12$

$-18 = 6x^2$

$-3 = x^2$ No real solution

8. $A = \frac{1}{2}bh$, solve for b

$2Ah = b$

10. Solve for x, $1.935 + 32.45x = 12.7$

$32.45x = 10.765$

$x \approx 0.332$

Round ~~the~~ the numbers below to the nearest thousandth.

11. 4.3675209

4.368

12. 35.49971

35.5

13. 500.00149879

500.001

14. Describe a situation where *the number of times you dropped your shiny new iPhone 6* is the dependent variable.

The # of times you drop your phone depends on the # of times you played catch with it, or the amount of time you used the phone.

15. Describe a situation where *the number of times you dropped your shiny new iPhone 6* is the independent variable.

The amount of money you spend to fix your phone depends on the amount of times you dropped it.

of days you're grounded depends on the # of times you drop your phone.