L1 One & Two Step Equations

August 24, 2015

Notebook Set Up

Tab 1: Warm-Ups
Tab 2: Notes
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Notebook quizzes at the end of EACH unit!

HAVE HOMEWORK OUT ON DESK!

Unit 1 Warm-Up #1
August 24

1. $45$
2. $8 \div (3 + 6) \times 3$
3. $\frac{8(5 - 4)}{5 - 1}$

ALGEBRA ANTICS #1

Find the value for each expression. Put your answer in the block in the ordered pair. Take the ordered pair for problem 1 and plot the point on the graph. The first number of the pair tells how far to move horizontally on the x-axis; the second number tells how far to move vertically on the y-axis. Next, plot the point for #2. Draw a line to connect the two points. Continue plotting each new point and connecting it to the previous point until you reach the end.

ALGEBRA ANTICS #2

Substitute the values for the variables. Then find the value of each expression. Put your answer in the block in the ordered pair. Take the ordered pair for problem #1 and plot the point on the graph. The first number of the pair tells how far to move horizontally on the x-axis; the second number tells how far to move vertically on the y-axis. Next, plot the point for #2. Draw a line to connect the two points. Continue plotting each new point and connecting it to the previous point until you reach the end.
Expression, Equations & Inequalities

Unit 1:

Lesson 1

Objective: To solve linear equations in one step.

Unit 1 Vocabulary

1. Inverse Operations: two operations that undo each other
2. Reciprocal: for a real number a \(a \neq 0\), the reciprocal is \(\frac{1}{a}\). The product of reciprocals is 1.
3. Distributive Property: multiply each term inside the parentheses with the term outside the parentheses.

\[
\frac{a \cdot 1}{a} = \frac{a}{a} = 1
\]

Title of Notes

Date

{START NOTES HERE}

**You will be able to use ALL HW on your quizzes/tests!!**

MAKE SURE YOUR NOTES ARE GOOD ONES!!
\[x + 6 = 3\]
\[x - 12 = 6\]
\[-6x = 48\]
\[\frac{1}{4}x = 5\]
$$3x - 7 = 4$$

$$\begin{align*}
3x &= 11 \\
x &= \frac{11}{3}
\end{align*}$$

$$3(2x + 5) = 17$$

$$\begin{align*}
6x + 15 &= 17 \\
6x &= 2 \\
x &= \frac{1}{3}
\end{align*}$$

$$\frac{2}{4} - 4x = 7$$

$$\begin{align*}
-4x &= 5 \\
x &= -\frac{5}{4}
\end{align*}$$

$$-\frac{2}{7}x = 4$$

$$\begin{align*}
-\frac{2}{7}x &= 28 \\
x &= -14
\end{align*}$$
35 = 12 + \frac{2x}{3}

\frac{2}{3}x + \frac{12}{3} = 35

\frac{7}{12}x = -12

\frac{2}{3}x = 23

\frac{8x}{8} = \frac{69}{2}

x = \frac{69}{2}

x + 5 = -10

\frac{4}{4} = \frac{10}{4}

In the 2004 Olympics, Shawn Crawford won the 200 meter dash. His winning time was 19.79 seconds. Find his average speed to the nearest tenth of a meter per second.

\[ S = \frac{d}{t} \quad d = \text{speed} \times \text{time} \]

\[ S = \frac{200 \text{ m}}{19.795 \text{ s}} = 10.1 \text{ m/s} \]

**Classwork:**

“Why Did Gonzo Walk Around Carrying Ice Cream and a Pair of Sparrows?”

&

“Did You Hear About...”

**Read the Directions First!!**
\[ \frac{1}{4} - 4m = 19 \]