

Key NO WORK

Simplify.

1.  $4(-3)^2 + 13(-3) + 50$

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Solve.

2.  $\frac{6}{3x-2} = \frac{4}{x}$

$x = \frac{4}{3}$  or  $1.\overline{3}$

3. Solve the equation. JUSTIFY YOUR STEPS.

$-3(x-4) - 5 = -2(4x+9)$

$x = -5$

4. If Mr. Sacco can drink 100oz. of coffee in one school day, how many gallons can he drink in an entire school year? (1 school year = 180 days)

140.625 gallons

5.  $12x + 2.79 = 86.79$  represents my total bill at the music store, where I bought a dozen CDs that were in the clearance bin.

a. What vocabulary term does the 2.79 represent? constant

b. What vocabulary term does the  $x$  represent? variablec. What does the  $x$  represent in context?d. What does the  $12x$  represent in context?

e. What do you think the 2.79 could possibly represent in context?

} see teacher

6. My sister Karen spent \$250 on supplies for her Halloween Scary Forest. She is going to charge \$3 for entrance to her party, and hopes to make at least \$100 in profit by the end of the weekend. Write an equation or inequality that represents the situation. How many people need to visit the Scary Forest in order for Karen to reach her profit?

Equation/Inequality: *see teacher to check*

Answer: *117 people*

Put the following standard form equations into slope-intercept form. (Solve the equation for y)

7.  $-24x - 6y = 12$

Slope-intercept equation:  $y = -4x - 2$

m =

b =

8.  $3x - 4y = -20$

Slope-intercept equation:  $y = \frac{3}{4}x + 5$

m =

b =

9. Given the equation  $y = -\frac{6}{5}x + 8$ , explain the steps you would go through in order to graph it.

*see teacher to check*