

Date:

Title:

(A) Fast Five

1. Which of the following values of x is a solution to the equation $18 - 4x = 6 - 16x$?

(1) $x = 1$

(3) $x = -3$

(2) $x = -1$

(4) $x = 7$

2. Which of the following values of x is a solution to the equation $5x - 11 = 2x - 3$?

(1) $x = 5$

(3) $x = \frac{8}{3}$

(2) $x = \frac{2}{3}$

(4) $x = \frac{11}{2}$

3. Which of the following values of x is a solution to the equation $\frac{2}{3}x + 13 = \frac{7}{3}x - 22$?

(1) $x = \frac{5}{3}$

(3) $x = 21$

(2) $x = -\frac{10}{3}$

(4) $x = -15$

(B) Explorations/Development

Exercise #1: Solve the linear equation below and check your answer by using **STORE** on your calculator.

$$5x - 5 = 2x + 13$$

Exercise #2: Solve each of the following equations. Check by using **STORE**.

(a) $7x - 21 = x + 3$

(b) $-4 + 3x = 6x + 32$

(c) $-2x - 18 = -4x - 6$

Write a RULE explaining HOW to solve these previous 4 questions

Exercise #3: Solve each of the following equations. Check by using **STORE**.

(a) $10 - 7x + x = 5x - 80 - 2x$

(b) $10x - 3 - 8x = -x + 11 - 3x + 10$

Write a RULE explaining HOW to solve these previous 2 questions

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Exercise #5: Translate each of the following verbal sentences into an equation and then solve for the number described.

(a) Eight times a number is 36 more than twice the same number.

(b) If three times a number is increased by 24, the result is six times the same number.

(c) If three times a number is increased by 22, the result is 14 less than seven times the same number.

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(C) Classwork

- See [Worksheet](#) (Start with the Geometry based questions and Distribution examples)

(D) Homework/Resources

- Help from PurpleMath.com → <http://www.purplemath.com/modules/solvein3.htm>

- Help from Algebra Lab →

http://www.algebralab.org/lessons/lesson.aspx?file=algebra_onevariablemultistep.xml

- Video Link → <http://www.youtube.com/watch?v=K2X500-nwJ8>

- **HW → TEXTBOOK, p37; Exercise 1C.2; Q2,3 & p39; Exercise 1D; Q1acegi, Q2ad, Q3ab**