Now that you have studied Algebra Equations, Expressions, Inequalities and Order of Operations, please take out a blank piece of paper so you can work through the following 5 problems. Remember, you need to get at least 4 of the 5 correct to move on.

For each question, choose the correct answer from the possible options.

1. Which of the following is an example of an inequality?

a. 3x - 9 = 7

b. 3x - 9 < 7

c. 3x - 9

(correct answer is b)

2. Simplify:

$12 \div 3 \cdot 2 + 5$
a.   13
a.   7
b.   47

(correct answer is a)

3. Solve for x

4.9x - 8.1 = 1.7

a. .2
a. 20
b. 2

(correct answer is c)

4. Solve for x

$$\frac{2}{3}x + \frac{1}{5} = 2$$

a. 27
a. 2.7
b. $\frac{10}{27}$

(correct answer is b)

5. When you use order of operations to simplify an algebraic expression, which of the following statements is always true?

a. You should always do addition before subtraction
a. You should always do multiplication before division
b. You should work "left to right" when deciding whether to do multiplication or division first

(correct answer is c)