

## Solving Equations Exit Quiz

**Part A: Multiple Choices: Instructions:** Choose the option that completes the sentence or answers the question.

1. The solution to the equation  $3(x + 2) = 2(2x + 2)$  is
  - a) 4
  - b) 2
  - c) 3
  - d) 0
2. The sum of two numbers is 55. The larger number is eleven more than the smaller number. The two numbers are
  - a) 33, 44
  - b) 11, 22
  - c) 22, 33
  - d) 0, 11
3. The solution to the equation  $\frac{3x}{5} - \frac{x}{2} = 4$  is
  - a) 40
  - b) 23
  - c) 30
  - d) 35
4. The solution to the equation  $2(40 + x) + 3x = 705$  is
  - a) 130
  - b) 200
  - c) 125
  - d) 140

**Part B: Short Answer: Instructions:** Answer the question below.

The sum of 3 consecutive even numbers is 78. Find the numbers.

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**Answers:****Short Quiz / Exit Slip: Properties of real numbers****Part A: Multiple Choices: Instructions:** Choose the option that completes the sentence or answers the question.

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  - 4
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- The sum of two numbers is 55. The larger number is eleven more than the smaller number. The two numbers are
  - 33, 44
  - 11, 22
  - 22, 33
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- The solution to the equation  $\frac{3x}{5} - \frac{x}{2} = 4$  is
  - 40
  - 23
  - 30
  - 35
- The solution to the equation  $2(40 + x) + 3x = 705$  is
  - 130
  - 200
  - 125
  - 140

**Part B: Short Answer: Instructions:** Answer the question below.

The sum of 3 consecutive even numbers is 78. Find the numbers.

Let the 3 consecutive even numbers are  $x$ ,  $x+2$  and  $x+4$ .

Therefore,

$$x + (x + 2) + (x + 4) = 78$$

$$\text{Or } 3x + 6 = 78$$

$$\text{Or } 3x = 78 - 6 = 72$$

$$\text{Or } x = 24 \text{ (Divide both sides by 3)}$$

So the three numbers are 24, 26, 18.