This review takes about 40 minutes for kids to complete.

Allow TWO days. Day one – kids do as much as they can using their resources.

Day two – have the kids partner homogenously to check their answers against each other.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_

MOCK ASSESSMENT 3A Mrs. Zunich

**Directions for 1-4: Solve for x. Show all work.**

1. **3(x + 10) = 63 2) 24 = 6( - x – 3)**

 **3)** $3x-8=10 $ **4) – 3(1 + 6x) = 14 – x**

**Directions 5-8: Using your solutions for questions 1-4, VERIFY your answers. REMEMBER TO PLUG IN YOUR SOLUTION!**

1. **3(x + 10) = 63 6) 24 = 6( - x – 3)**

 **7)** $3x-8=10 $ **8) – 3(1 + 6x) = 14 – x**

9) Jenny goes to a craft fair. She has $30 to spend.

 The cost of admission is $5. She sees some great stuffed animals for $6 each. What is the greatest number of stuffed animals she can purchase with the money she has?

**Write an equation** and **solve** to determine the answer.

Equation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solution:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10) Write the justification for each step in the following equation. Use the following terms.

 Combining like terms, adding on both sides, distributing, dividing on both sides.

 2(x + 8) - 25 = 13

 2x + 16 - 25 = 13 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2x - 9 = 13 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 +9 +9 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2x = 22

 2 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 X = 11

11) Write an algebraic expression for each of the following.

 10 less than three times a number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Twice the sum of 12 and a number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 8 less than twice a number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12) Explain the error in the following problems. Solve each correctly.

 4 + 2(x – 3) = 12 Correct solution:

 6x – 18 = 12

 +18 +18

 6x = 30

 6 6

 x = 5

The error is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13) If the legs of a right triangle are 3 inches and 4 inches. Use the Pythagorean Theorem to find the hypotenuse.