**Student Worksheet for “Speed Mathing”**

Directions: Sit at any seat you like. Begin the first problem. **Make sure you show the work for the problem in the correct area of this worksheet.** (If you start at problem 4, make sure you show the work under problem 4 on this worksheet.) You can work with the person sitting across from you, if there is a person sitting across from you, but you must each show your work on the paper below. When the timer goes off, move to your right and begin that problem. Continue repeating until you’ve completed all the problems.

Objectives: Collaborate with your “partner” to solve each problem before the timer goes off.

**Problem 1:**

Check:

**Problem 2:**

Define the variable: Write an equation:

Solve the equation:

Answer the problem in a full sentence: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Problem 3:** Draw tiles:

Describe how to solve the equation using the tiles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

Solution: Check using substitution:

**Problem 4:**

Solve: Check using substitution:

**Problem 5:**

Define the variable: Write an equation:

Solve the equation:

Answer the problem in a full sentence: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Problem 6:**

Solve: Check using substitution:

**Problem 7:**

Solve: Check using substitution:

**Problem 8:**

Define the variable: Write an equation:

Solve the equation:

Answer the question in a complete sentence: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PROBLEM 1**

Solve using a flowchart.

3 – 2m = -21

Don’t forget to check your answer by substituting.

**PROBLEM 2**

Computers R US was selling laptops that had 4GB of memory for $495. You can buy additional memory for $97 per GB. If your grandfather gave you $980 to buy a laptop and additional memory, how much memory can you get?

**PROBLEM 3**

Draw the algebra tiles that represent the equation below.

12 = 3m

Describe how to solve the problem using the tiles, solve the equation and check the answer.

**PROBLEM 4**

Solve using “undoing” method.



Check your answer using substitution.

**PROBLEM 5**

Mr. Cal Q. Later was so pleased with the amount of homework everyone was completing that he gave your math teacher $100 to buy McDonald’s for the class. The sodas and fries you bought for everyone cost $73.27. Since McChickens are $0.99, how many McChickens can you get?

**PROBLEM 6**

Solve using any method you like.



Check your answer using substitution.

**PROBLEM 7**

Solve using any method you like.

9 = 16 - m

Check your answer using substitution.

**PROBLEM 8**

Friendly’s has a special offer on milkshakes right now. If you buy their limited edition glass for $5.80, then you can refill it (with a milkshake) for $1.25 anytime during the month of November. If you have $23.30, how many milkshakes can you get this month?