**3rd Grade: Unit 9 Pre-Test**

**Which equation(s) have a product greater than 300?** 3.NBT.3

1) 40 x 9 = Yes No

2) 70 x 2 = Yes No

3) 3 x 80 = Yes No

4) **How much do three 50-pound dogs weigh?**  3.OA.3/3.NBT.3

Show your work.

 \_\_\_\_\_\_\_\_\_ pounds

5) **Valerie has 6 packages of index cards. There are 80 index cards in each package. She knows that 6 x 8 = 48.**

 **Explain how Valerie can use what she knows to find the solution.** 3.NBT.3

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

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

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

**Jeff has 6 bags of ice. Each bag weighs 3 pounds. How many pounds does Jeff have altogether?** 3.OA.3/3.OA.5/3.OA.7

6) 3 x 6 Yes No

7) 3 + 3 + 3 + 3 + 3 Yes No

8) (3 x 2) + (3 x 4) Yes No

9) **Erin read 3 times as many books as Colin. Colin read 7 books. How many books did Erin read?** 3.OA.3/3.OA.7

Show your work.

 Erin read \_\_\_\_\_\_\_\_\_\_ books.

10) **Write a related multiplication fact for 72** $÷$ **8 = 9.** 3.OA.7

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

**Which rectangle(s) have an area of 36 squared units?** 3.MD.5/3.MD.7



11) Yes No



12) Yes No

13) Yes No

14) **Find the area of a porch 15 feet long and 9 feet wide. Use the area model to help you solve.** 3.MD.7/3.OA.5

 **The area is \_\_\_\_\_\_\_\_\_\_\_\_** $feet^{2}$

**Jasmin and Hassan each use unit squares to tile a piece of paper. Their work is shown below.**

 Jasmin’s Array Hassan’s Array



15) **Which student measured incorrectly? Explain why.** 3.MD.5

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

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

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

16) **What is the area of the piece of paper? Explain your strategy for finding the area.**

 3.MD.7

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

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

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