3rd Grade – Unit 7 Pre-Test

Use what you know about multiplication patterns to answer the following questions.

3.OA.9

1)   Multiples of 10 always end in 0.   Yes   No

2)   Odd numbers are always divisible by 3.   Yes   No

3)   The product of an odd and even number
        will always be odd.   Yes   No

4)   **A car has 4 wheels. Fill in the grid below.**   3.OA.9

Number of cars	4		6		8
Total number of wheels		20		28	

5)   **Explain the pattern you notice on the grid above.**   3.OA.9

_____

_____

_____

_____

Solve for the missing number.   3.OA.4/3.OA.6

6) $j \times 5 = 15$ $j = $ _____

7) $8 \times p = 32$ $p = $ _____

8) $9 \times 9 = k$ $k = $ _____

9) **Write a related division fact for 5 x 7 = 35.** 3.OA.4/3.OA.6

_____

10) **Alice and Tim are trying to figure out which number could be placed in the box to make the equation true.** 3.OA.4/3.OA.6

$$3 = 9 \div \boxed{}$$

Alice says the answer is 3. Tim says the answer is 27. Who is right?
Explain your thinking.

_____

_____

_____

_____

The teacher has 4 boxes of chalk. Each box has 8 pieces inside. Which number model(s) or array(s) represent how many pieces of chalk the teacher has? 3.OA.3

11:

11)   Yes   No

12)   4 x 8   Yes   No

13)   (2 x 8) + (2 x 8)   Yes   No

Use the diagram to solve the problem. 3.OA.3/3.OA.7

14)   7 children picked 42 apples.
       If they share the apples equally,
       how many will each child get?

Children	Apples per child	Apples in all

Number model: _____   Answer: _____

15) **Create a story problem to match the number sentence below.** 3.OA.3/3.OA.7

$$8 \times 3 = 24$$

_____

_____

_____

Match the multiplication problems to the correct product. Write the letter that matches the problem. 3.NBT.3/3.OA.7

_____ 16) 50 x 2   **A.** 250

_____ 17) 3 x 80   **B.** 630

_____ 18) 60 x 4   **C.** 100

_____ 19) 7 x 90   **D.** 240

20) **There are 3 bookcases in the classroom. Each bookcase has 6 shelves. There are 10 books on each shelf.** 3.NBT.3

How many books are on the bookcases altogether?

Use a number sentence or picture to solve.

There are _____ books on the bookcases.