

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

Total number of wheels

4		6		8
	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) $j \times 5 = 15$ $j = \underline{\hspace{2cm}}$

7) $8 \times p = 32$ $p = \underline{\hspace{2cm}}$

8) $9 \times 9 = k$ $k = \underline{\hspace{2cm}}$

- 9) Write a related division fact for $5 \times 7 = 35$.

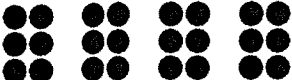
3.OA.4/3.OA.6

- 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

$$3 = 9 \div \square$$

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) 

Yes No

- 12) 4×8

Yes No

- 13) $(2 \times 8) + (2 \times 8)$

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) 50×2

A. 250

_____ 17) 3×80

B. 630

_____ 18) 60×4

C. 100

_____ 19) 7×90

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.

