Name: _____ Period: _____ Date: _____

Unit 1 Test **Math 3**

Part A:

1. Using the commutative property, what is another way to write 5 x 6?

   _____

2. What letter did not use the distributive property correctly?
   a. 2 x 9 = 2 x (4 + 5) = (2 x 4) + (2 x 5) = 18
   b. 3 x 8 = 3 x (4 + 4) = (3 x 4) + (3 x 4) = 24
   c. 9 x 5 = (3 + 6) x 5 = (3 x 5) + (6 x 5) = 45
   d. 7 x 4 = (3 + 4) x 7 = (3 x 7) + (4 x 7) = 28

3. Which equation will not have a similar representation as the rest?
   a. 8 x 3 = 24
   b. 6 x 4 = 24
   c. 24 ÷ 4 = 6
   d. 4 x 6 = 24

4. What is the product of 6 and 3?
   a. 12
   b. 3
   c. 18
   d. 24

5. What is the quotient for the expression 28 ÷ 4?
   a. 2
   b. 7
   c. 10
   d. 12

Part B:

6. Explain how 9 x 5 is the same as adding the products of 3 x 5 and 6 x 5.

_____

_____

_____

_____

7. How is the expression 32 ÷ 4 related to 4 x 8?

_____

_____

_____

_____

8. Explain if the equation below is correct or incorrect:

7 x 5 = 20 + 10 = 30

_____

_____

_____

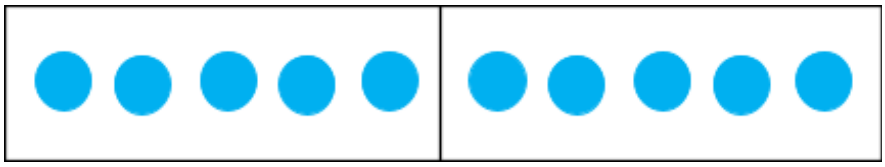
_____

Part C:

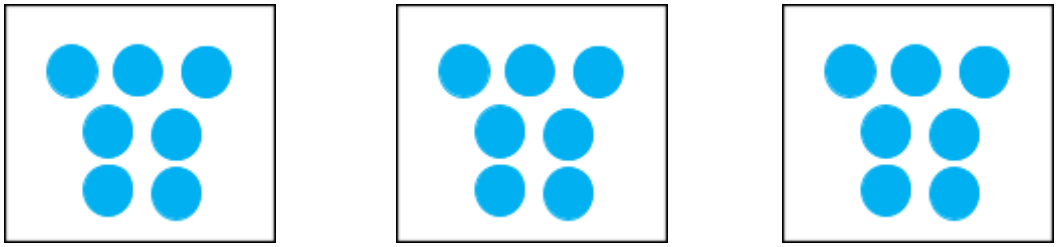
Complete the equations and match them to their corresponding illustration.

9. 3 x 8 = _____ is represented by the illustration _____
10. 5 x 2 = _____ is represented by the illustration _____
11. 4 x 9 = _____ is represented by the illustration _____
12. 10 ÷ 2 = _____ is represented by the illustration _____
13. 7 x 3 = _____ is represented by the illustration _____
14. 36 ÷ 4 = _____ is represented by the illustration _____

A.

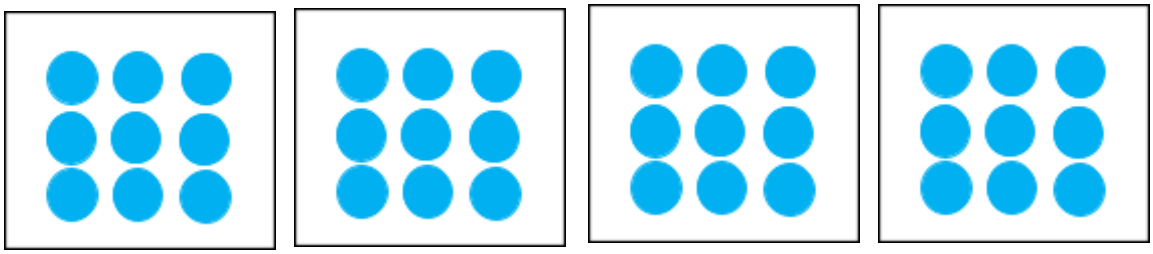


B.



C.

D.



Part D:

Complete as many equations as you can in 1 minute.

4 x _____ = 36	_____ x 5 = 40	_____ ÷ 3 = 6
28 ÷ 7 = ____	30 ÷ _____ = 3	10 x 2 = _____
3 x _____ = 27	_____ x 2 = 10	32 ÷ _____ = 4
2 x 8 = _____	7 x 5 = _____	4 x 6 = _____
6 x _____ = 30	27 ÷ 9 = _____	18 ÷ 2 = _____
28 ÷ _____ = 4	3 x 4 = _____	12 ÷ 2 = _____
25 ÷ 5 = _____	4 x 4 = _____	3 x _____ = 15
2 x _____ = 16	50 ÷ _____ = 5	_____ x 2 = 14

15.

Part E:

Solve the following word problems. Show complete illustrations and solutions.

16. George wants to equally put 27 apples in 9 stacks. How many apples should each stack have? Draw an array.

17. Melissa has 10 containers. She puts 2 buttons in each container. How many buttons does she have? Draw equal groups.

18. Jack has 7 groups of 5 candies. Jill has 5 bags containing 7 candies each. How many candies does Jack have? Does Jill have? Draw the two possible tape diagrams. What property is evident in the situation?

