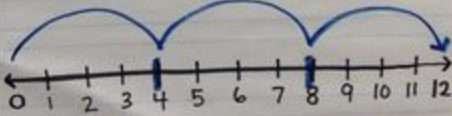**Dear Parents,**
We want to make sure that you have an understanding of the mathematics your child will be learning in this chapter: Multiplication Strategies. Please let your teacher know if you have any questions. :) 3rd Grade Teachers

Array

$3 \times 4 = 12$

rows with equal amount in each.

Equal Groups

$3 \times 4 = 12$

3 groups with 4 in each.

Repeated Addition

$4 + 4 + 4 = 12$

$3 \times 4 = 12$

Number Line

1 hop of 4 = 4
2 hops of 4 = 8
3 hops of 4 = 12

Test Date:_____

Additional Resources:

Google Classroom
Ixl
Study island

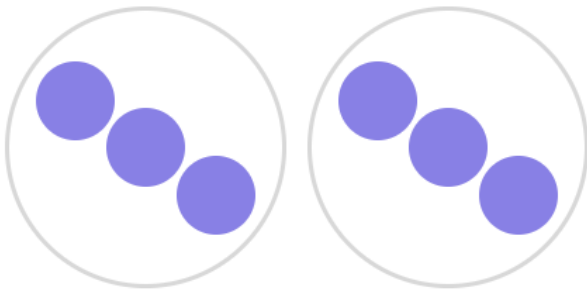|	
What is the product of 5 × 4? **Solution** Multiplying 5 by 4 is the same as adding together 5 groups of 4. $5 \times 4 \quad = \quad 20$ $4 + 4 + 4 + 4 + 4 \quad = \quad 20$	**The two grids below each have 32 squares.** $4 \times 8 = 32 \qquad 8 \times 4 = 32$ The first grid shows four groups of eight squares. The first grid represents the number sentence, $4 \times 8 = 32$. The factors are 4 and 8. The product is 32. The second grid shows eight groups of four squares. The second grid represents the number sentence, $8 \times 4 = 32$. The factors are 8 and 4. The product is 32.

Fill in the blanks to describe the model.
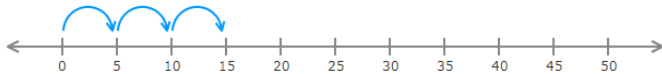
There are ☐ groups of dots.

There are ☐ dots in each group.

Which expression describes this array?

2 × 2	2 × 1

Complete the multiplication sentence that describes the model.

$3 \times \boxed{} = 15$