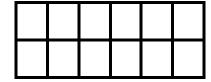NVACS: Operations and Algebraic Thinking

3.OA.A.5 Apply properties of operations as strategies to multiply and divide: commutative, associative, and distributive properties.

Practice for 3rd Grade

For each of the arrays below, write two ways that they can be described using the commutative property of multiplication.

For example:

2 X 6 = 12   or   6 X 2 = 12

Name: _____ Date: _____

3.OA.A.5 Apply properties of operations as strategies to multiply and divide: commutative, associative, and distributive properties.
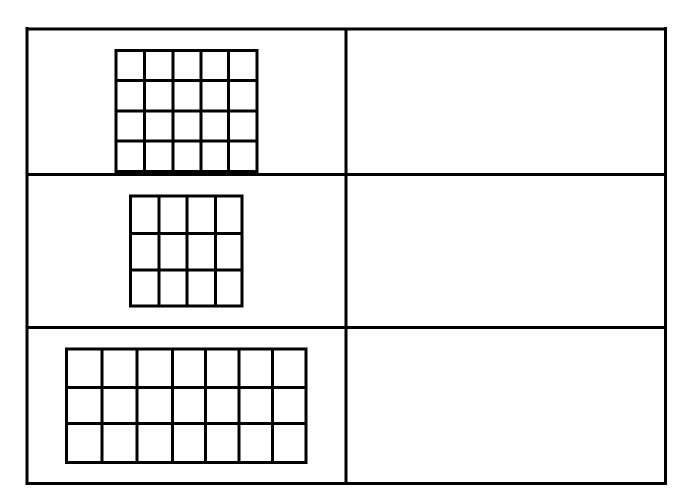
Practice for 3rd Grade

Read each of the sentences below and fill in the missing number so the sentence is true.

Example: 8 x 4 = 4 x 8	
7 x 8 = ___ x 7	6 x 4 = ___ x 6
3 x 9 = ___ x 3	___ x 5 = 5 X 7
___ x 4 = 4 X 2	11 x 3 = ___ x 11
12 x 9 = ___ x 12	___ x 10 = 10 X 1

Read each of the sentences below and determine if they are true or false.

	True	False
Example: 8 x 4 = 4 x 8	✓	
9 x 4 = 5 x 10		
3 x (5 x 2) = (2 x 5) x 3		
6 x (2 x 2) = (2 x 2) + 6		