

# Multiplication Concept Builder 9.3

$$4 \times 4 = 16$$

Groups of "Things" TOTAL

Draw the **FACT**. Cross out extra groups. For the "things" in each group, draw  $\checkmark$ ,  $\text{☺}$ ,  $\text{♥}$ , etc.

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\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_

Multiplication is **REPEATED ADDITION!**



Rewrite the fact:  $\bigcirc \times \bigcirc = \square$

Write the **COMMUTATIVE**:  $\bigcirc \times \bigcirc = \square$

Draw the **COMMUTATIVE**. Cross out extra groups. For the "things" in each group, draw  $\checkmark$ ,  $\text{☺}$ ,  $\text{♥}$ , etc.

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Below are the **ARRAYS** for the fact and commutative. Record the **factors**: the number of groups (rows) and "things" (circles per row). Then write the **product** (total). The commutative has been done for you.

**ARRAY** for 4X4

1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4

Commutative

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array} = \begin{array}{r} 16 \\ \hline \end{array}$$

Groups of "Things" (Rows of Circles)      Product Total

Your Turn!

1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4

Fact

$$\begin{array}{r} \phantom{0} \\ \times \phantom{0} \\ \hline \end{array} = \begin{array}{r} \phantom{00} \\ \hline \end{array}$$

Groups of "Things" (Rows of Circles)      Product Total

Write the fact here.

Write the commutative here.

Create a **FACT FAMILY**. Write the **FACTORS** in the circles. Write the **PRODUCT** in the boxes.

$\bigcirc \times \bigcirc = \square$	$\square \div \bigcirc = \bigcirc$
$\bigcirc \times \bigcirc = \square$	$\square \div \bigcirc = \bigcirc$