

# 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

$$\frac{4}{\text{Groups of "Things" (Rows of Circles)}} \times \frac{4}{\text{"Things" (Circles)}} = \frac{16}{\text{Product Total}}$$

Your Turn!

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

Fact

$$\frac{\quad}{\text{Groups of "Things" (Rows of Circles)}} \times \frac{\quad}{\text{"Things" (Circles)}} = \frac{\quad}{\text{Product Total}}$$

Write the fact here.

Write the commutative here.

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

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

# Multiplication Concept Builder 2.1

$$2 \times 3 = 6$$

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:  $\bigcirc \times \bigcirc = \square$

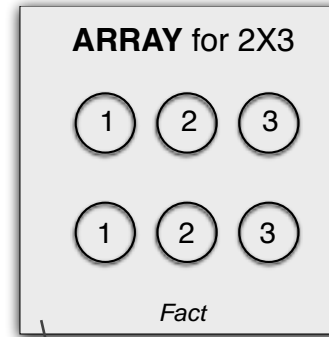
Write the **COMMUTATIVE**:  $\bigcirc \times \bigcirc = \square$

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

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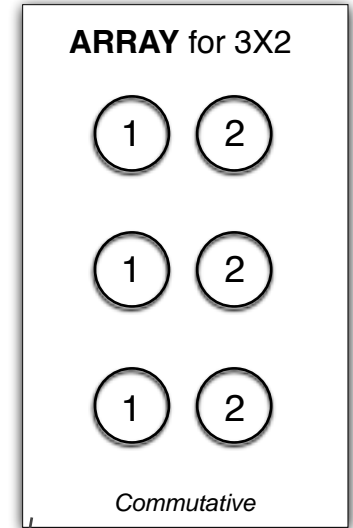
\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_

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



$$\frac{2}{\text{Groups of "Things" (Rows of Circles)}} \times \frac{3}{\text{"Things" (Circles)}} = \frac{6}{\text{Product Total}}$$

Your Turn!



$$\frac{\quad}{\text{Groups of "Things" (Rows of Circles)}} \times \frac{\quad}{\text{"Things" (Circles)}} = \frac{\quad}{\text{Product Total}}$$

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

Write the fact here.  $\bigcirc \times \bigcirc = \square$       $\square \div \bigcirc = \bigcirc$

Write the commutative here.  $\bigcirc \times \bigcirc = \square$       $\square \div \bigcirc = \bigcirc$

# Multiplication Concept Builder 3.1

$$5 \times 3 = 15$$

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 3X5

1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

Commutative

$$\frac{3}{\text{Groups of "Things" (Rows of Circles)}} \times \frac{5}{\text{Product Total}} = \frac{15}{\text{Product Total}}$$

$$\frac{\quad}{\text{Groups of "Things" (Rows of Circles)}} \times \frac{\quad}{\text{Product Total}} = \frac{\quad}{\text{Product Total}}$$

Your Turn!

**ARRAY** for 5X3

1	2	3
1	2	3
1	2	3
1	2	3
1	2	3

Fact

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

Write the fact here.  $\bigcirc \times \bigcirc = \square$       $\square \div \bigcirc = \bigcirc$

Write the commutative here.  $\bigcirc \times \bigcirc = \square$       $\square \div \bigcirc = \bigcirc$