

Multiplication Concept Builder 1.1

$$\begin{array}{ccccccc} 0 & \times & 4 & = & 0 \\ \text{Groups} & \text{of} & \text{"Things"} & & \text{TOTAL} \end{array}$$

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

--	--	--	--	--	--	--	--	--

___ + ___ + ___ + ___ + ___ + ___ + ___ + ___ + ___

Multiplication is **REPEATED ADDITION!**



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

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

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

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

ARRAY for 0×4

Fact

$$\begin{array}{ccccccc} 0 & \times & 4 & = & 0 \\ \text{Groups} & \text{of} & \text{"Things"} & & \text{Product} \\ \text{(Rows)} & \text{of} & \text{Circles} & & \text{Total} \end{array}$$

$$\begin{array}{ccccccc} & \times & & = & \\ \text{Groups} & \text{of} & \text{"Things"} & & \text{Product} \\ \text{(Rows)} & \text{of} & \text{Circles} & & \text{Total} \end{array}$$

Your Turn!

ARRAY for 4×0

Commutative

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 1.2

$$1 \times 6 = 6$$

Groups of "Things" TOTAL

Draw the **FACT**. Cross out extra groups. For the "things" in each group, draw \checkmark , 😊 , ♥ , etc.

--	--	--	--	--	--	--	--	--

_____ + _____ + _____ + _____ + _____ + _____ + _____ + _____ + _____

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 , 😊 , ♥ , 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 fact has been done for you.

ARRAY for 1X6



Fact

$$\begin{array}{rcl} 1 & \times & 6 \\ \hline \text{Groups of "Things"} & & \text{Product} \\ \text{(Rows of Circles)} & & \text{Total} \end{array} = 6$$

$$\begin{array}{rcl} & \times & \\ \hline \text{Groups of "Things"} & & \text{Product} \\ \text{(Rows of Circles)} & & \text{Total} \end{array} =$$

Your Turn!

ARRAY for 6X1



Commutative

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

$$\begin{array}{lcl} \bigcirc \times \bigcirc = \square & \square \div \bigcirc = \bigcirc \\ \bigcirc \times \bigcirc = \square & \square \div \bigcirc = \bigcirc \end{array}$$