

Multiplication Concept Builder 4.1

$$9 \times 4 = 36$$

Groups

X

of

4

"Things"

=

36

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.

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|

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

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 4X9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Commutative

Your Turn!

ARRAY for 9X4

| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 |
| 1 | 2 | 3 | 4 |

Fact

$$\frac{4}{\text{Groups of "Things" (Rows of Circles)}} \times \frac{9}{\text{Product Total}} = \frac{36}{\text{Product Total}}$$

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

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