

Fact Families

A fact family is a set of related multiplication and division number sentences.

Write the fact family for the array below.



There is a total of 12 tiles.

There are 2 equal groups (rows) of tiles.

There are 6 tiles in each group (row)

The three numbers in the fact family are: 2, 6, and 12.

Write 2 different multiplication, and 2 different division sentences for the numbers in the fact family.

Use 12 as the product and the dividend.

factor \times factor = product: $\underline{2} \times \underline{6} = 12$ $\underline{6} \times \underline{2} = 12$

dividend \div divisor = quotient: $\underline{12} \div \underline{6} = 2$ $\underline{12} \div \underline{2} = 6$

So, the fact family is $2 \times 6 = 12$, $6 \times 2 = 12$, $12 \div 6 = 2$, and $12 \div 2 = 6$.

Examples:

A- Write the fact family for each set of numbers.

1) 6, 7, 42

$$\underline{6} \times \underline{7} = 42$$

$$\underline{7} \times \underline{6} = 42$$

$$\underline{42} \div \underline{6} = 7$$

$$\underline{42} \div \underline{7} = 6$$

2) 2, 3, 6

$$\underline{2} \times \underline{3} = \underline{6}$$

$$\underline{3} \times \underline{2} = \underline{6}$$

$$\underline{6} \div \underline{3} = \underline{2}$$

$$\underline{6} \div \underline{2} = \underline{3}$$

B- Complete each fact family

3) $4 \times 7 = 28$

$$7 \times \underline{4} = 28$$

$$28 \div \underline{7} = 4$$

$$28 \div 4 = \underline{7}$$

4) $4 \times \underline{9} = 36$

$$9 \times \underline{4} = 36$$

$$36 \div 4 = \underline{9}$$

$$36 \div 9 = \underline{4}$$