

Multiplication facts + Division Facts

Math facts involving multiplication and division

This lesson on math facts is to make kids comfortable with multiplication facts and division facts and the fact families involving multiplication and division. First of all, kids need to know multiplication and division facts about the number 1 (unity) and zero.

Math facts about 1 (unity): Any number multiplied or divided by 1 is the number itself. In other words, if a number is multiplied or divided by 1, the answer is the same number. For example, consider the number 2, if we multiply or divide this 2 by 1, the answer is 2 as shown below:

$$2 \times 1 = 2, \quad \text{also } 2 \div 1 = 2$$

Similarly every other number times 1 or divided by 1 is the number itself.

Math facts about 0 (zero): There are very important math facts about zero to remember. First of all kids need to know that 0 multiplied or divided by any number is always 0. In other words, if we multiply or divide 0 by any number, the answer is always 0. For example, consider the number 2, if 0 is multiplied or divided by 2, the answer is 0 as shown below:

$$0 \times 2 = 0, \quad \text{also } 0 \div 2 = 0$$

Similarly in case 0 is multiplied or divided by any other number, the answer is always 0.

Another very important fact about 0 is that, any number multiplied by 0 is zero but we can't divide by zero. Because zero is nothing in other words, and to divide a number we need to know how many parts or sections we want to divide it. But dividing into zero parts (or no partition at all) don't make any sense and not defined in mathematics.

Hence, whenever you see division by zero, write not defined as the response to it. For example,

$2 \div 0 = \text{Not defined}$. Similarly, in case of every other number division by 0 is not defined.

Multiplication facts, division facts and fact families:

1) Multiplication and division fact family of 2, 3 and 6.

$$2 \times 3 = 6$$

$$3 \times 2 = 6$$

$$6 \div 2 = 3$$

$$6 \div 3 = 2$$

2) Multiplication and division fact family of 1 and 2.

$$1 \times 2 = 2$$

$$2 \times 1 = 2$$

$$2 \div 1 = 2$$

$$2 \div 2 = 1$$

1) Multiplication and division fact family of 0 and 5

$$0 \times 5 = 0$$

$$5 \times 0 = 0$$

$$0 \div 5 = 0$$

$$0 \div 0 = \text{Not defined}$$