

Multiplication is a repeated addition

Example:

$$2 + 2 + 2 = 6$$

Convert to
multiplication

$$2 \times 3 = 6$$

When combining EQUAL groups,
the fastest way to get the total
is by using...

Multiplication

Use your finger to do multiplication:-

$$2 \times 3 = ?$$

$$3 + 3 = 6$$



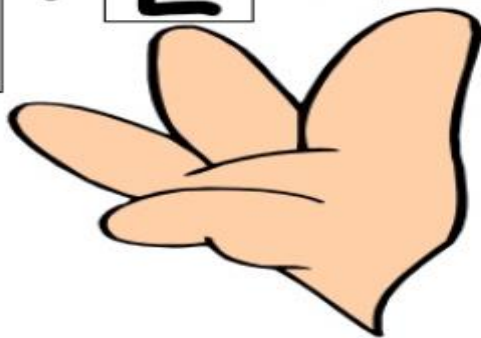
Each finger
equal to 3

$$2 \times 3 = 6$$

$$3 \times 2 = 6$$

$$3 \times 2 = ?$$

$$2 + 2 + 2 = 6$$



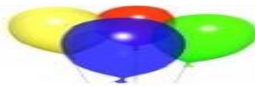
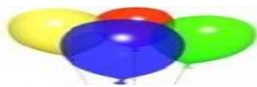
Each finger
equal to 2

Sometime multiplication can be used when objects are in rows or columns, or arrays.



Here is an array of flowers.

There are 3 rows of 6 flowers
Equal numbers are in each group.
Multiplication can be used!



$$3 \times 4 = 12 \text{ balloons}$$



$$3 \times 6 = 18 \text{ flowers.}$$

How many groups?

How many in each group?



There are 3 groups of 4 balloons.

Questions related to multiplication

Question 1. Show is repeated addition as multiplication:-

a. $2+2+2 = \underline{\hspace{2cm}}$

$3 \times 2 = \underline{\hspace{2cm}}$

b. $4+4 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

c. $7+7+7+7+7 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

d. $6+6+6+6+6+6 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

e. $2+2+2+2+2+2+2 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

Q2. Change the following multiplication forms to the repeated addition form:-

1. $3 \times 6 = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

2. $2 \times 4 = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

3. $5 \times 2 = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

4. $4 \times 5 = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

5. $3 \times 10 = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

Q3. Complete the multiplication facts:-

1. 1×5

2. 1×7

3. 6×7

4. 7×8

5. 8×4

Q4. Fill in the blanks:-

1. Reena has six dresses. Each dress has five buttons. How many buttons all together? $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2. There are four dogs in the house. Each dog has five puppies. How many puppies in all? $\underline{\quad\quad} \times \underline{\quad\quad} = \underline{\quad\quad}$
3. A garden has eight rows of flowers. How many flowers in all? $\underline{\quad\quad} \times \underline{\quad\quad} = \underline{\quad\quad}$
4. $5+5+5+5+5+5 = \underline{\quad\quad} \times \underline{\quad\quad} = \underline{\quad\quad}$
5. Subtract 8×2 from 5×4 $\underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$