Put 3 balls in each box. Take 2 such boxes.

We have, $3 + 3 = 6$ balls.

We write, $2 \times 3 = 6$.

We say, "Two threes are six".

Or, three things taken 2 times gives 6 such things.

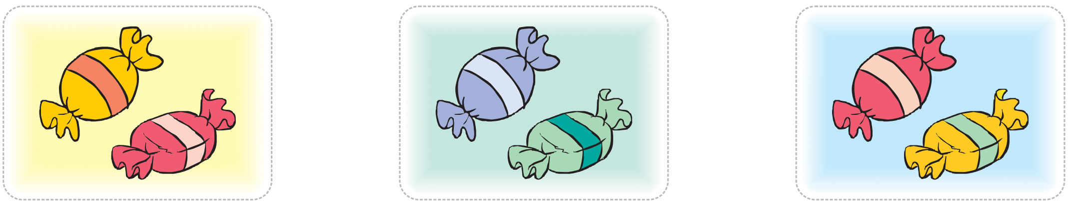
$2 \times 1 = 2$

$2 \times 2 = 4$

$2 \times 3 = 6$

Similarly, we can count the number of balls if we take a group of 4 balls twice, a group of five balls twice, etc. We write these results in tabular form as shown. We have to remember these tables to do multiplication.

Now take some toffees and put them in groups of 2. Take three such groups.



We have, $2 + 2 + 2 = 6$. We see that $3 \times 2 = 6$. We have also seen that $2 \times 3 = 6$.

So we see that two numbers when multiplied give the same result, irrespective of the order in which they are written.

If we do not take any toffees, we will have no toffees or zero toffees with us. Any number taken zero times gives us zero. Thus,

$$0 \times 2 = 0 \text{ or } 2 \times 0 = 0, \quad 0 \times 1 = 0 \text{ or } 1 \times 0 = 0,$$
$$0 \times 100 = 0 \text{ or } 100 \times 0 = 0$$

If we remember tables up to 9 x 9, we can do multiplication with any number.

## Exercises

5 x 1 =

5 x 2 =

5 x 3 =

5 x 4 =

5 x 5 =

5 x 6 =

5 x 7 =

5 x 8 =

5 x 9 =

5 x 10 =

6 x 1 =

6 x 2 =

6 x 3 =

6 x 4 =

6 x 5 =

6 x 6 =

6 x 7 =

6 x 8 =

6 x 9 =

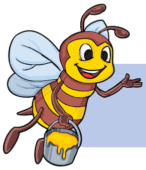
6 x 10 =

$$\begin{array}{r} 2 \\ \times\ 5 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times\ 5 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times\ 6 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ \times\ 5 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times\ 6 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times\ 6 \\ \hline \end{array}$$

## Write the table of 7.

## Write the table of 8.

$$\begin{array}{r} 9 \\ \times\ 7 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ \times\ 7 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times\ 7 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times\ 7 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times\ 8 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times\ 8 \\ \hline \end{array}$$



# Exercises

9 x ___ = 18

6 x ___ = 18

4 x ___ = 8

8 x ___ = 16

4 x ___ = 16

6 x 7 = ___

6 x ___ = 30

10 x ___ = 30

7 x ___ = 28

28 x ___ = 28

3 x ___ = 9

9 x ___ = 36

6 x ___ = 36

8 x 7 = ___

8 x ___ = 24

___ x 4 = 24

9 x 9 =

8 x 8 =

7 x 7 =

6 x 6 =

5 x 5 =

4 x 4 =

3 x 3 =

2 x 2 =