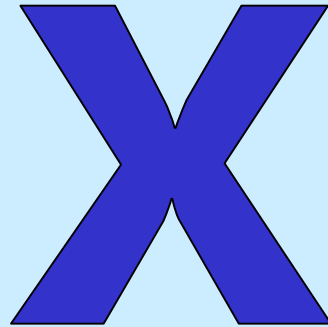


Learning Objective

To understand
multiplication as
repeated addition
and as an array

Multiplication

times

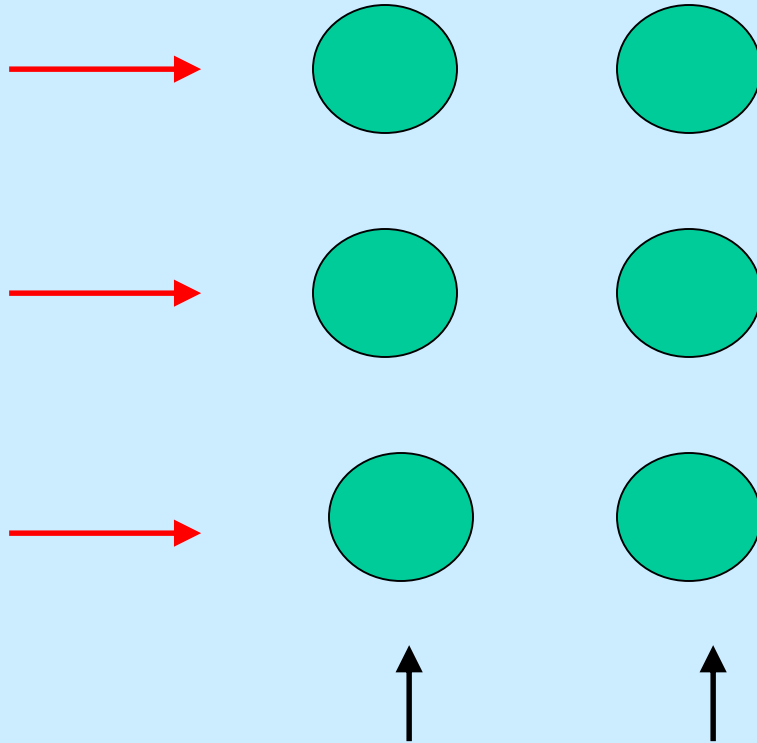


lots of

sets of

groups
of

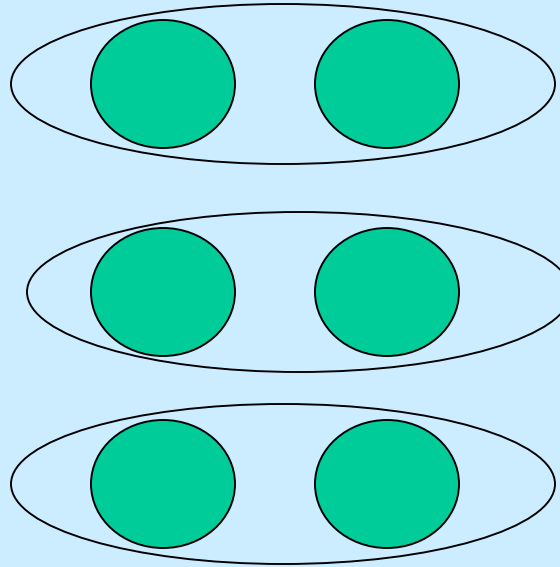
Here are 6 counters



How many rows are there? **3**

How many columns are there? **2**

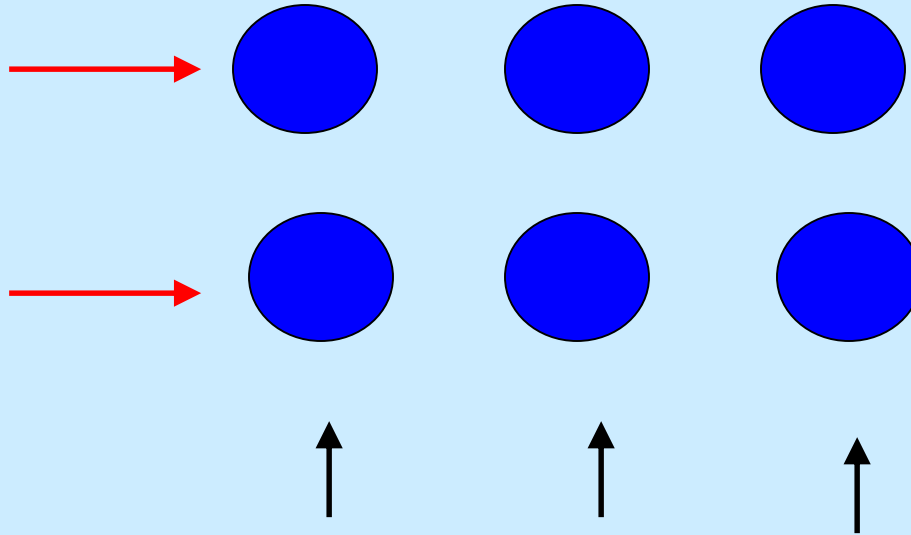
3 rows and 2 columns.



Could we write an addition sentence? $2 + 2 + 2 = 6$

Could we write a multiplication sentence? $3 \times 2 = 6$

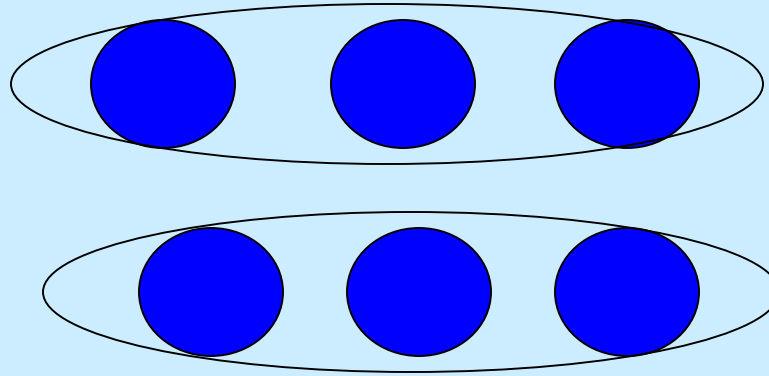
Here are 6 counters



How many rows are there? **2**

How many columns are there? **3**

2 rows and 3 columns.

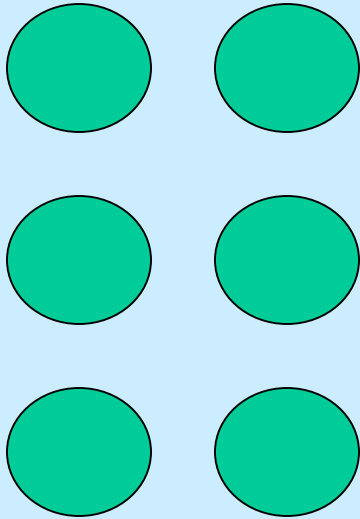


Could we write an addition sentence? **3 + 3 = 6**

Could we write a multiplication sentence?

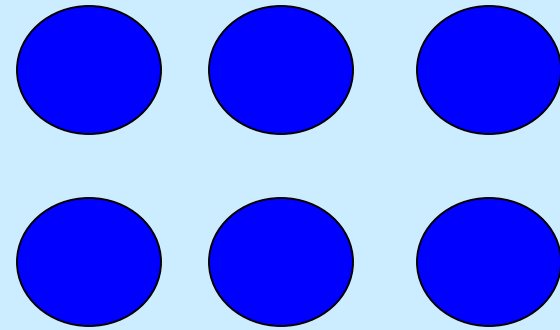
$$\mathbf{2 \times 3 = 6}$$

What do you notice?



$$2 + 2 + 2 = 6$$

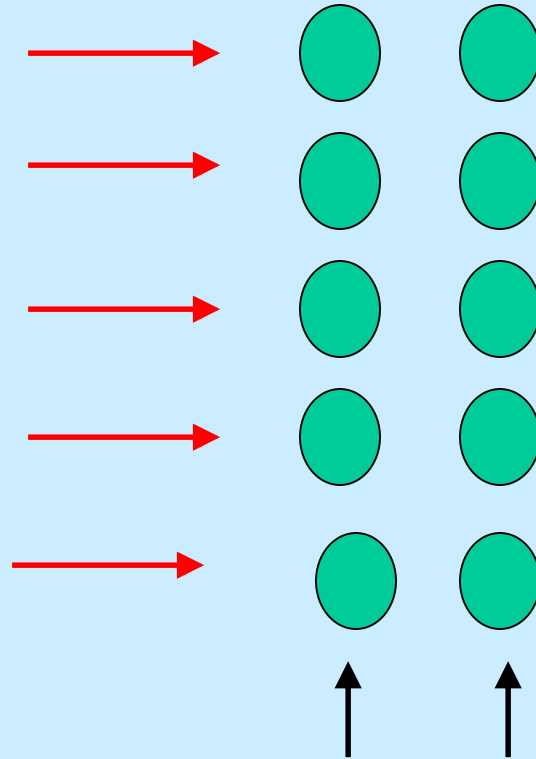
$$3 \times 2 = 6$$



$$3 + 3 = 6$$

$$2 \times 3 = 6$$

Here are 10 counters



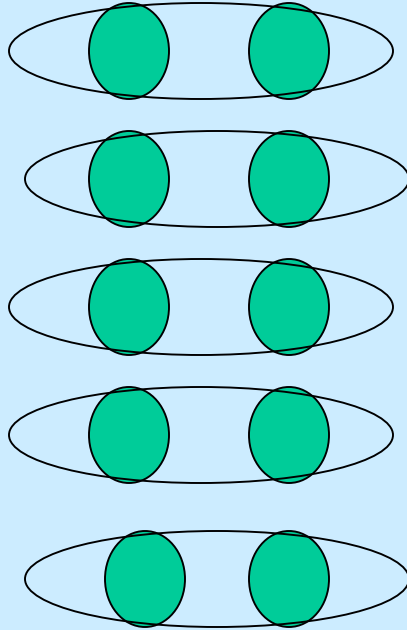
How many rows are there?

5

How many columns are there?

2

5 rows and 2 columns



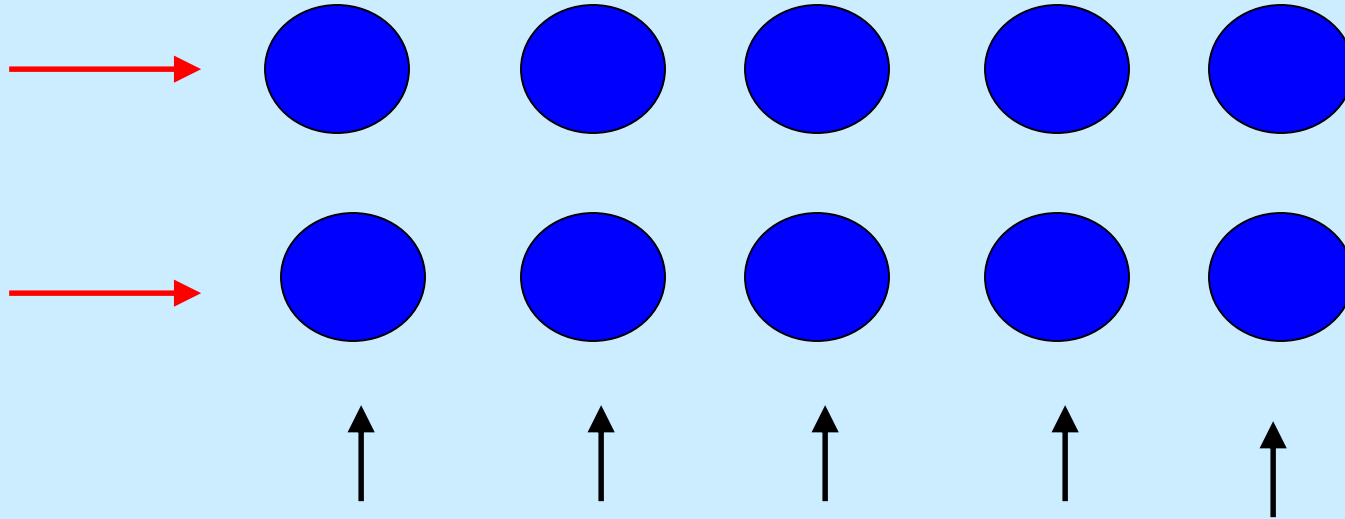
Could we write an addition sentence?

$$2 + 2 + 2 + 2 + 2 = 10$$

Could we write a multiplication sentence?

$$5 \times 2 = 10$$

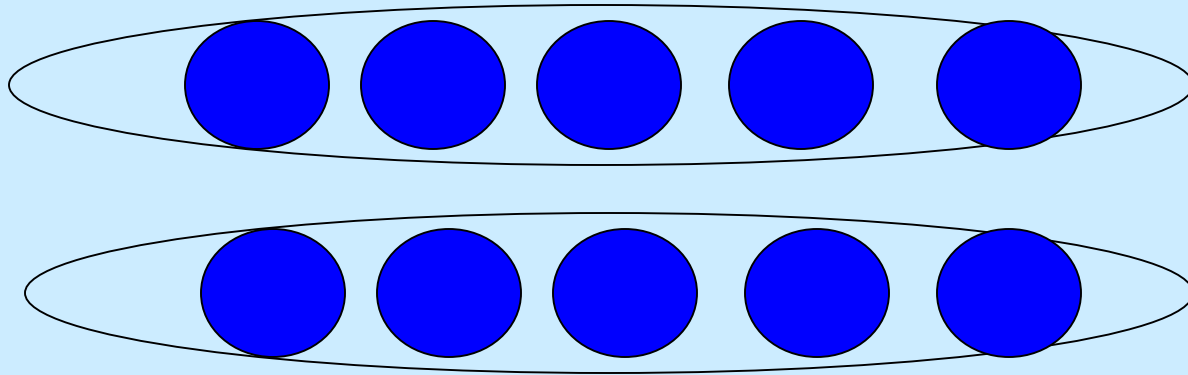
Here are 10 counters



How many rows are there? **2**

How many columns are there? **5**

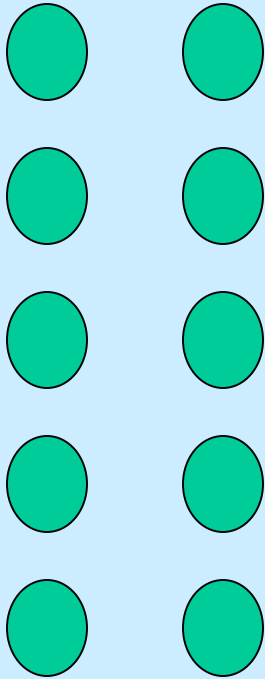
2 rows and 5 columns.



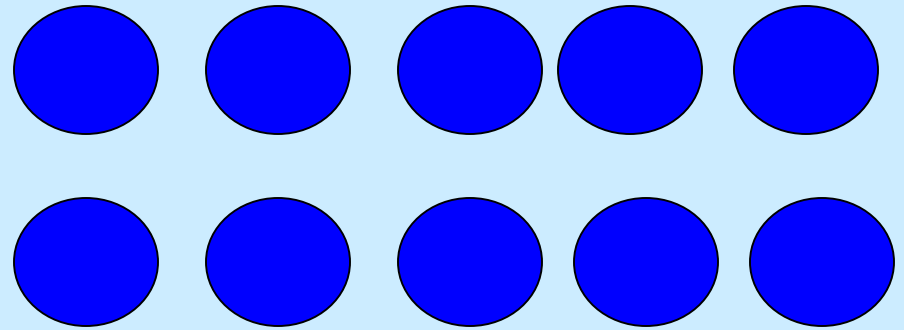
Could we write an addition sentence? $5 + 5 =$
 10

Could we write a multiplication sentence? $2 \times 5 =$
 10

What do you notice?



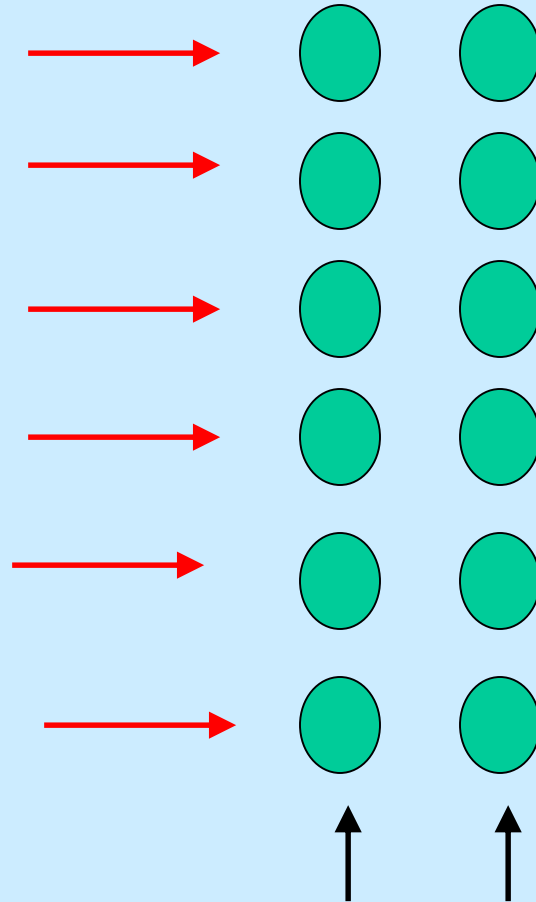
$$2 + 2 + 2 + 2 + 2 = 10$$
$$5 \times 2 = 10$$



$$5 + 5 = 10$$

$$2 \times 5 = 10$$

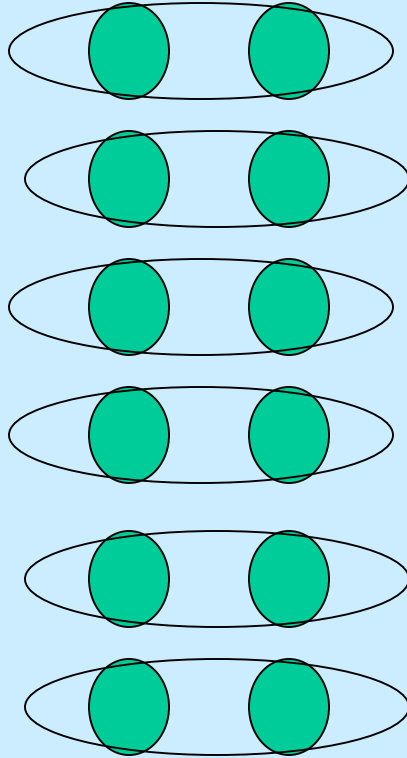
Here are 12 counters



How many rows are there? **6**

How many columns are there? **2**

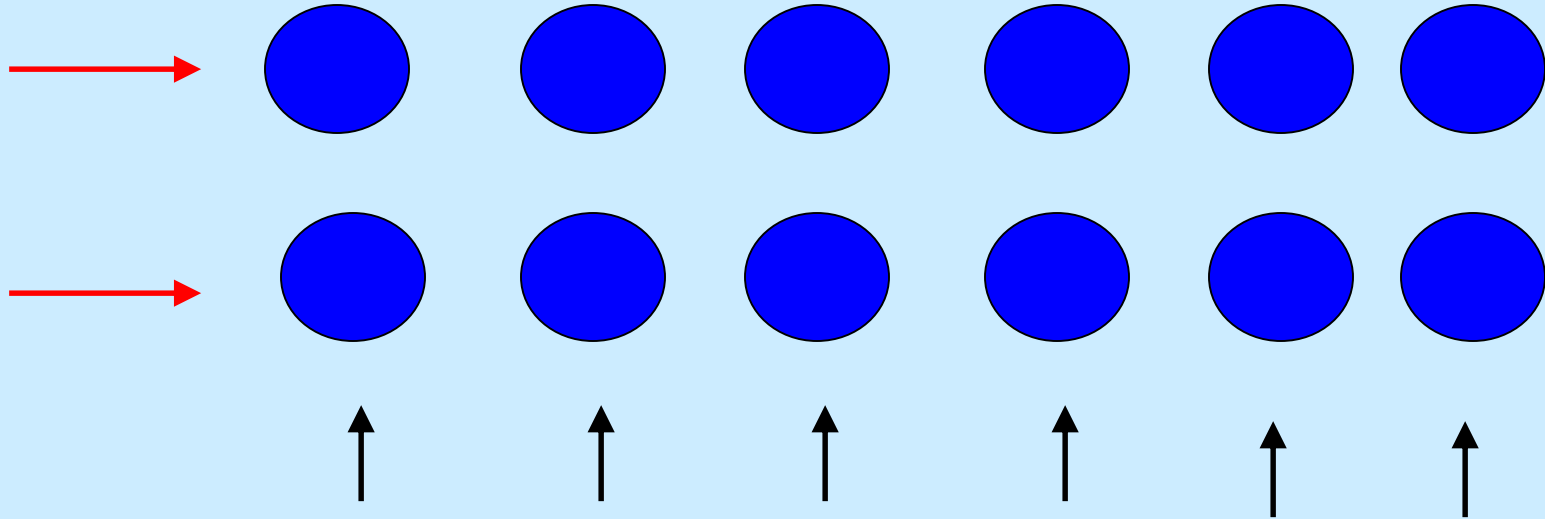
6 rows and 2 columns



Could we write an addition sentence? $2 + 2 + 2 + 2 + 2 + 2 = 12$

Could we write a multiplication sentence? $6 \times 2 = 12$

Here are 12 counters



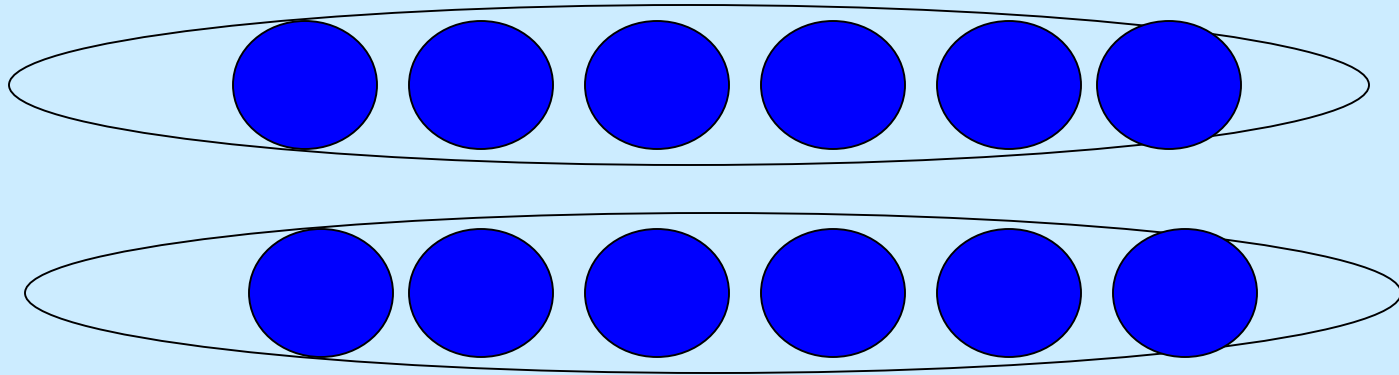
How many rows are there?

2

How many columns are there?

6

2 rows and 6 columns.



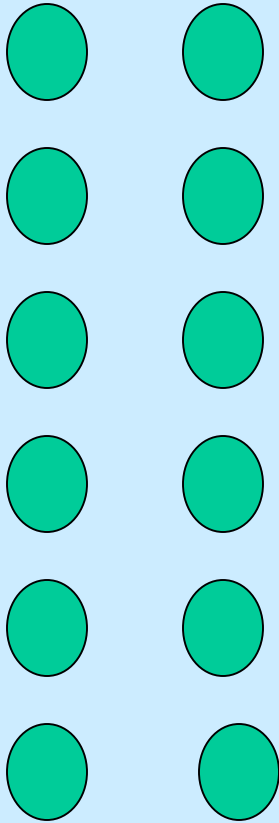
Could we write an addition sentence?

$$6 + 6 = 12$$

Could we write a multiplication sentence?

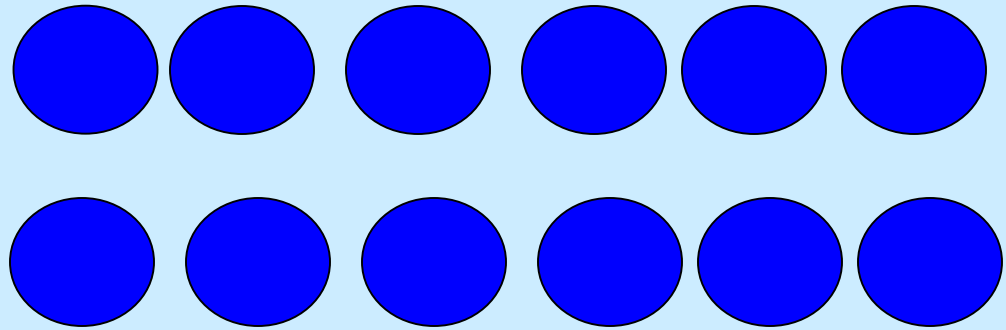
$$2 \times 6 = 12$$

What do you notice?



$$2 + 2 + 2 + 2 + 2 + 2 = 12$$

$$6 \times 2 = 12$$



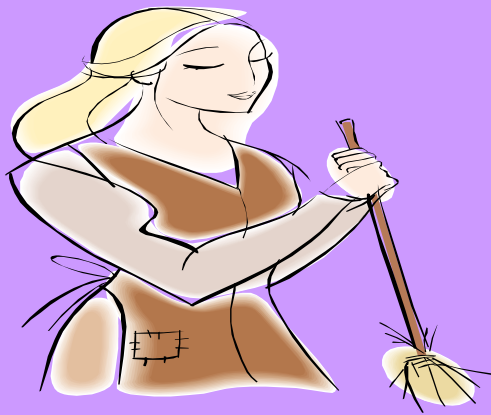
$$6 + 6 = 12$$

$$2 \times 6 = 12$$

Mrs Masterson bakes cakes.

**She bakes her four children two
cakes each.**

How many cakes does she bake?





$$2 + 2 + 2 + 2 = 8$$



$$4 \times 2 = 8$$



$$4 + 4 = 8$$

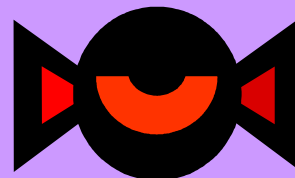
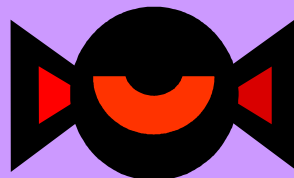
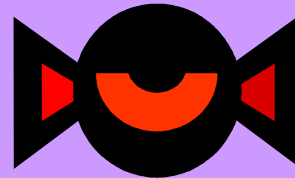
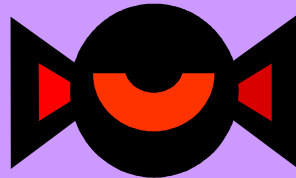
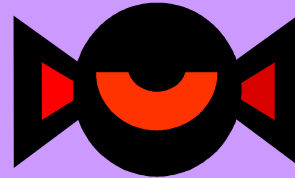
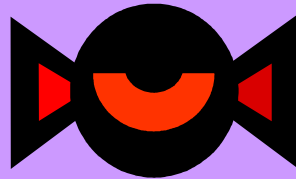
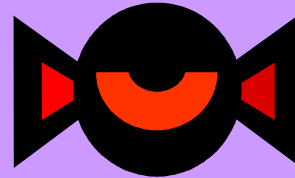
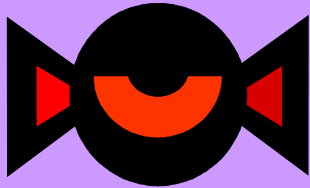
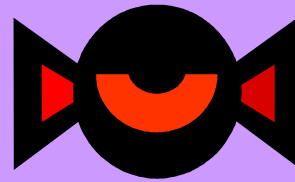
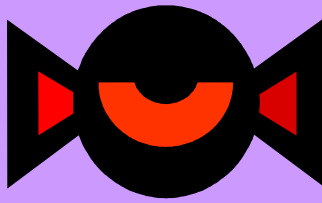


$$2 \times 4 = 8$$

Mrs Patel buys some sweets.
She buys her five friends two
sweets each.

How many sweets does she
buy?





$$2 + 2 + 2 + 2 + 2 = 10$$

$$5 \times 2 = 10$$

$$5 + 5 = 10$$

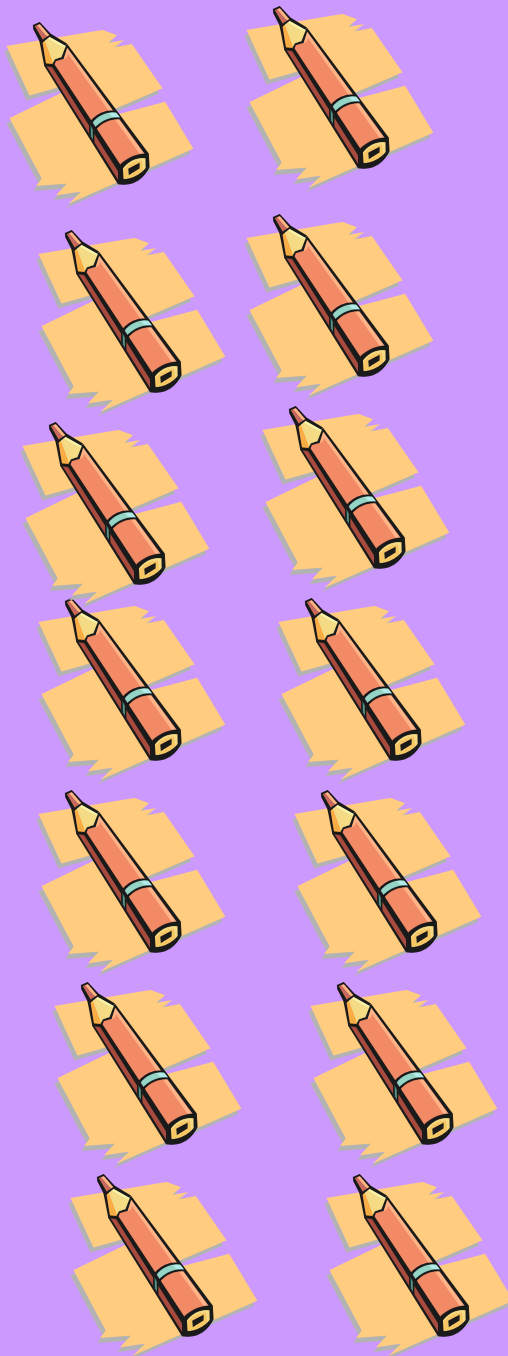
$$2 \times 5 = 10$$

Miss Smets buys some pencils.

**She buys her seven friends two
pencils each.**

**How many pencils does she
buy?**





$$2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$$

$$7 \times 2 = 14$$

$$7 + 7 = 14$$

$$2 \times 7 = 14$$