

Maths

Lesson 3

w

Starter

Who has the most money?

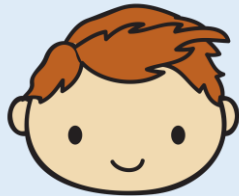
Can you prove it by writing multiplications?



I have four 5p coins.



$$4 \times 5 = 20$$

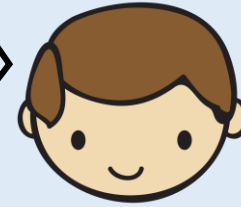


I have three
10p coins.



$$3 \times 10 = 30$$

I have ten
2p coins



$$10 \times 2 = 20$$



Walt: use arrays

S2S: I can

- add equal groups
 - make arrays
- use arrays to calculate multiplication statements

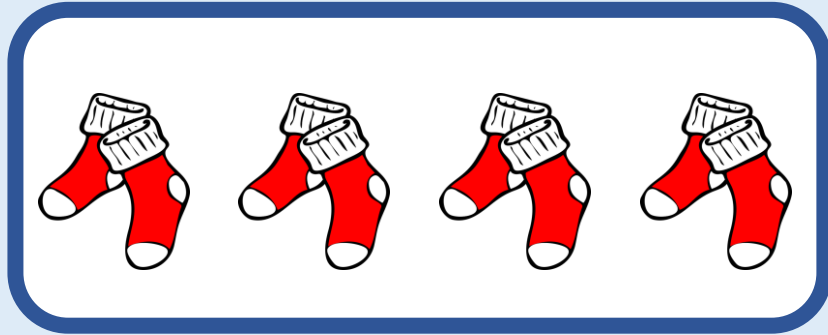
What do we call this symbol?
What does this symbol mean?

lots of **X** groups of
multiply **X** times

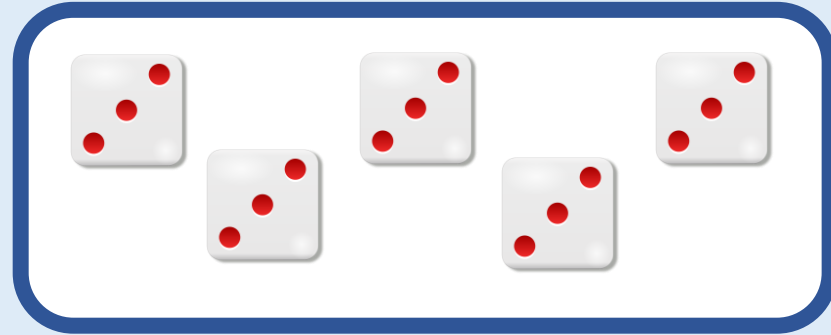
The multiplication symbol

Write a multiplication for each picture.

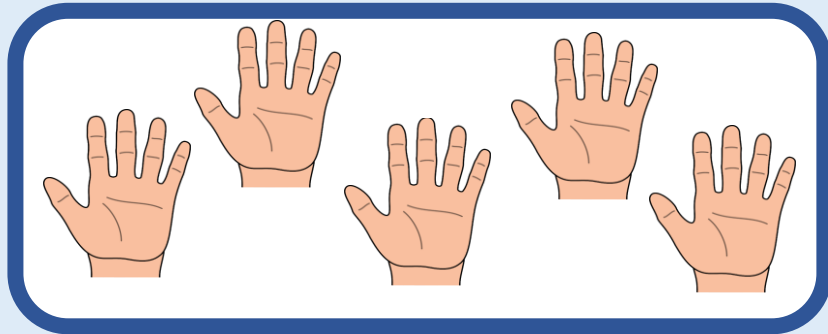
Can you solve it?



$$4 \times 2 = 8$$



$$5 \times 3 = 15$$



$$5 \times 5 = 25$$



$$6 \times 10 = 60$$

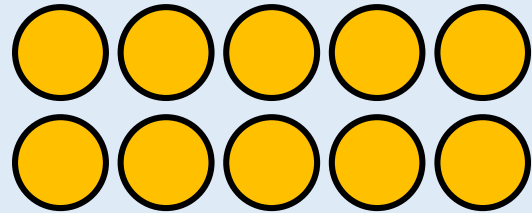


Let's Learn

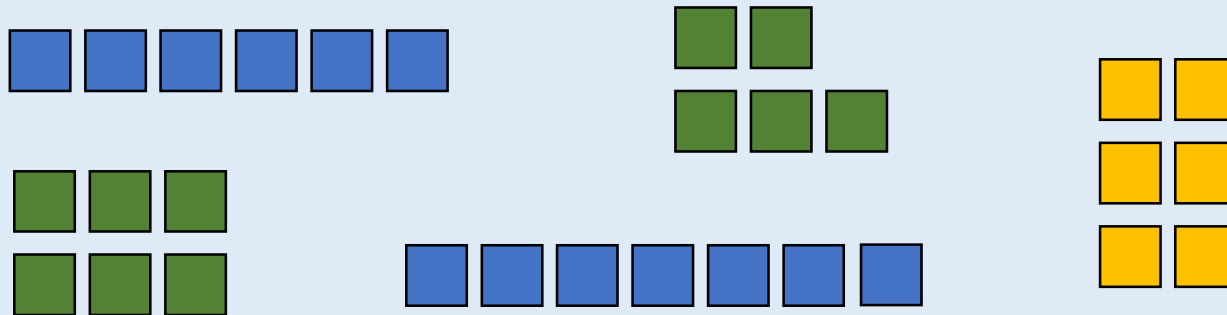
1) How many counters?



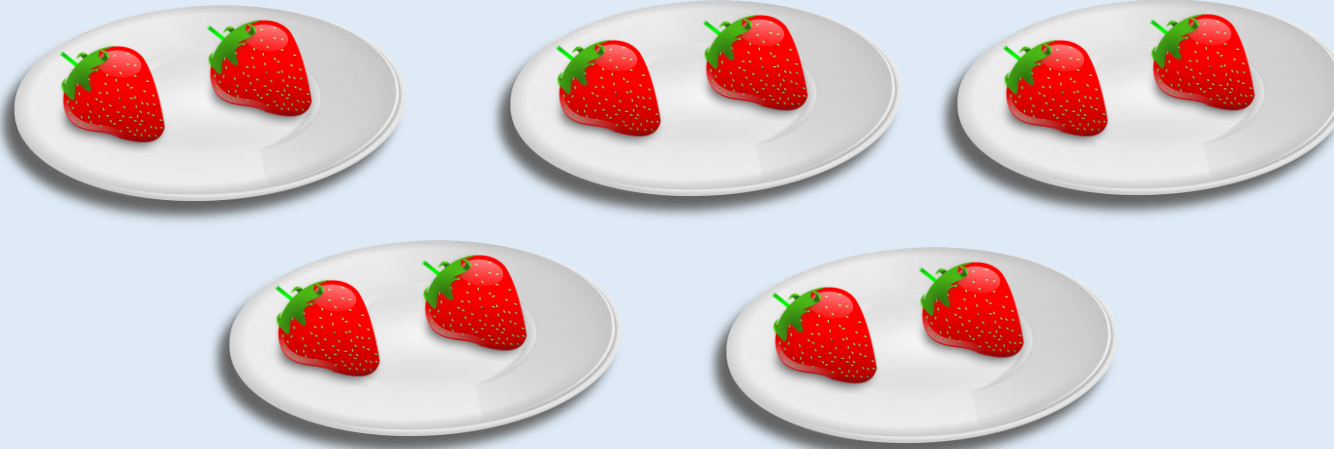
2) How many counters?



3) Which representations show 6?



How many strawberries?



5 lots of 2.

$$\underline{5} \times \underline{2} = \underline{10}$$

We can arrange the strawberries into rows.
Is there more than one way?



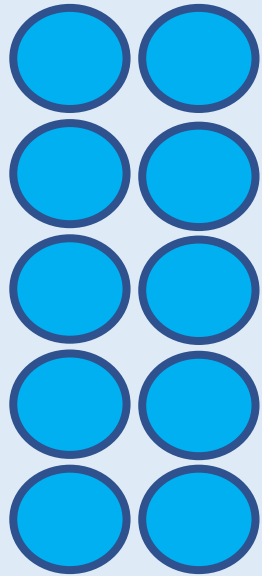
5 lots of 2

is the
same as



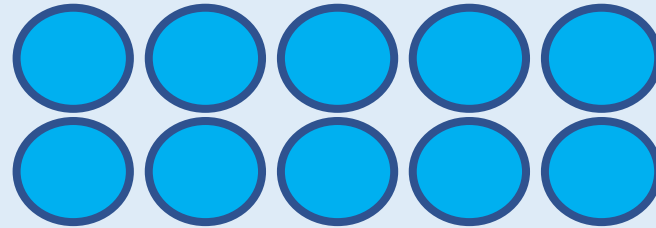
2 lots of 5

These are called arrays.
We can represent the strawberries
with counters.



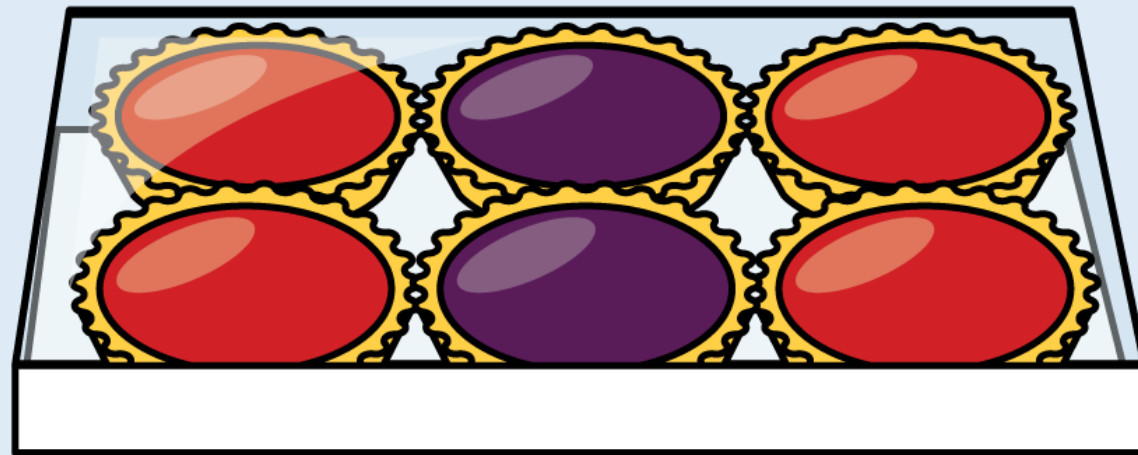
5×2

=



2×5

How many tarts?



2

2

2

3

3

How many cakes?



5

5

2

2

2

2

2

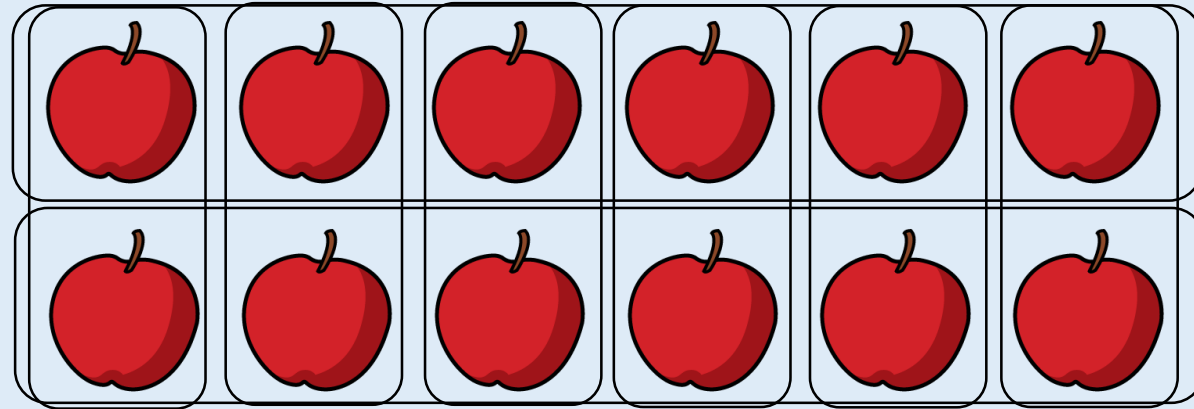


Guided Practice

What is an array?

6 columns

2 rows



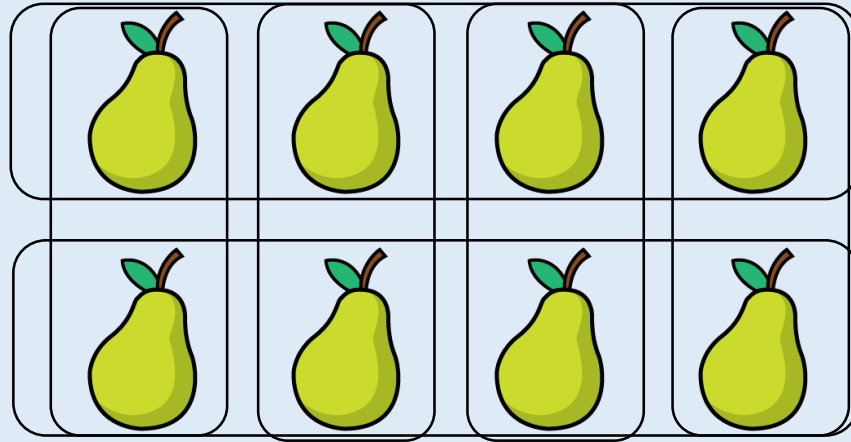
$$6 + 6 = 12$$

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

$$2 \times 6 = 12$$

$$6 \times 2 = 12$$

Have a think



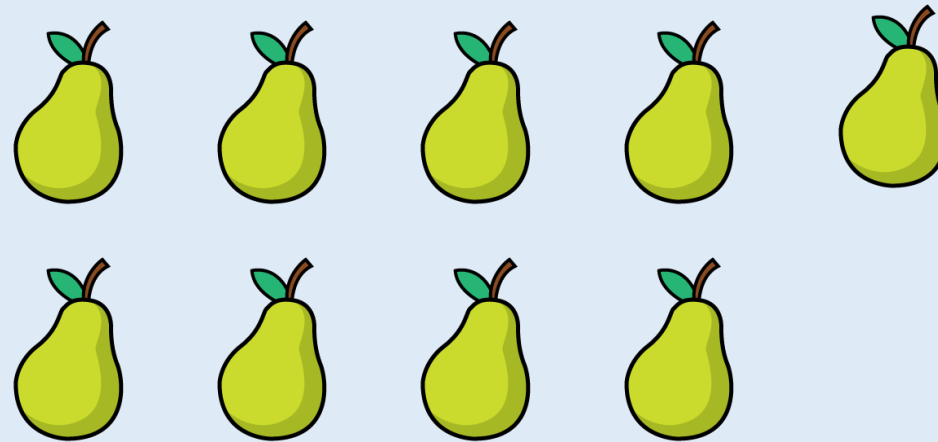
$$4 + 4 = 8$$

$$2 \times 4 = 8$$

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

$$4 \times 2 = 8$$

Have a think



You can't make an array because 9 is an odd number



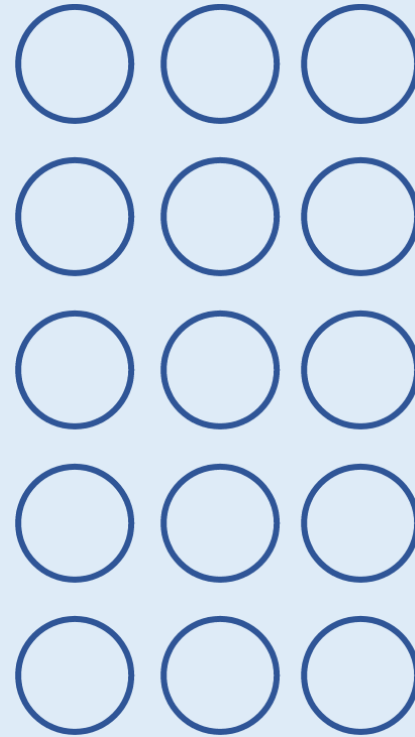
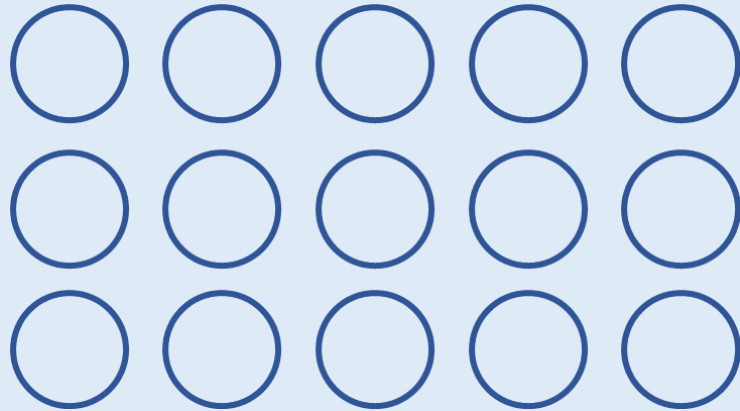
$$3 + 3 + 3 = 9$$

$$3 \times 3 = 9$$



Your turn
Questions 1 - 4

Draw an array to represent 5×3

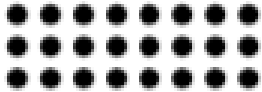
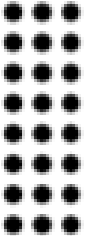


Have a think



Draw dots to show each multiplication in two ways.

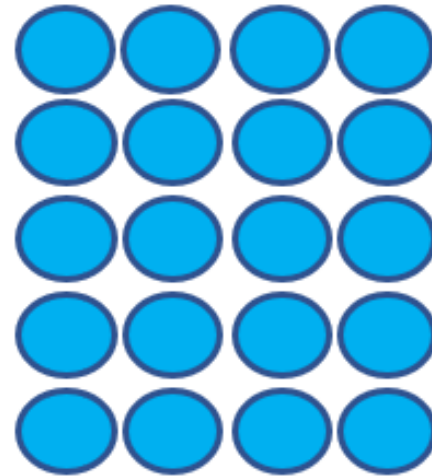
The first one has been done for you.

Multiplication	Array 1	Array 2
3×8		
2×5		
4×9		
6×1		

Problem solving

Problem Solving 1

Adam has 20 counters and made the array below.



Draw more arrays that he could make.

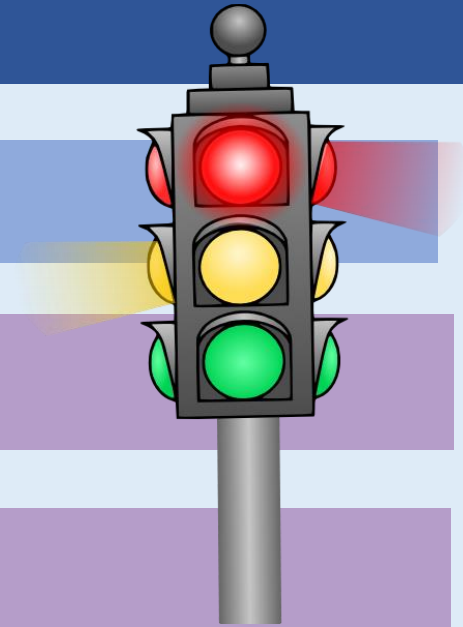
Reflection – Traffic Lights


Where did I get to today?


I can now.....


I need more practice with...

I still need to learn how to



 ... add equal groups.

 ... make arrays.

 ... use arrays to calculate multiplication statements.