

A cartoon illustration of a young girl with brown skin, freckles, and a blue headband. She is wearing a blue jacket and dark pants, and is smiling with her arms raised. She holds a yellow pencil in her right hand and a black calculator in her left. Above her is a large, yellow, cloud-like thought bubble containing various mathematical symbols: the number 0 (purple), the letter X (orange), the number 3 (green), an equals sign (blue), the Greek letter pi (blue), a division sign (red), the number 7 (orange), a square root symbol (purple), the number 2 (red), and a plus sign (green). The background is red with a vertical black and white striped pattern on the right side.



Week 10 - information and tips



This week we will be focusing on multiplication as **arrays**. Remember, when we are drawing arrays, we can climb up the ladder and walk across the roof OR walk across the roof and climb down the ladder. Multiplication can be done either way round. Also listen for and use the multiplication vocabulary

groups of lots of repeated addition times array.

- Click on the following link <https://whiterosemaths.com/homelearning/year-2/>
- Scroll towards the bottom of the page to find the pink tab called Summer Term- Week 5.
- Before completing each worksheet watch the relevant video

Home learning...

Remember to post pictures of
your work in the Class dojo
Forum to receive Dojo point!



Plus, don't forget the daily challenge



Lesson 1:

Multiplication sentences using the \times symbol



1 Complete the sentences.

a)

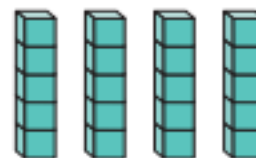


There are equal groups with
in each group.

$$\square + \square + \square = 18$$

$$\square \times \square = 18$$

b)



There are equal groups with
in each group.

$$\square + \square + \square + \square = 20$$

$$\square \times \square = 20$$

c)



There are equal groups with
in each group.

$$\square + \square = 8$$

$$\square \times \square = 8$$

- 2 Complete the table.

The first one has been done for you.

Addition	Multiplication
$2 + 2 + 2 + 2$	4×2
$5 + 5 + 5$	
$3 + 3 + 3 + 3 + 3$	
	2×10

- 3 Complete the pattern.

$$5 \times 2 = 5 + 5 = \boxed{}$$

$$5 \times 3 = 5 + 5 + 5 = \boxed{}$$

$$5 \times 4 = 5 + 5 + 5 + 5 = \boxed{}$$

$$5 \times 5 = \underline{\hspace{2cm}} = \boxed{}$$

What comes next?



- 4 The total is 16

What could the addition and multiplication be?

- 5 Use counters to help you complete the number sentences.

a) $3 \times \boxed{} = 12$

b) $\boxed{} \times 4 = 8$

c) $2 \times \boxed{} = 10$



Lesson 2:

Use arrays

White
Rose
Maths

- 1 How many pears are there?



$$\square + \square + \square = \square$$

$$\square \times \square = \square$$

There are pears.

- 2 How many stars are there?



$$\square + \square = \square$$

$$\square \times \square = \square$$

There are stars.

- 3 Write two additions and two multiplications for the array.



$$\square + \square + \square = \square$$

$$\square \times \square = \square$$

$$\square + \square + \square + \square = \square$$

$$\square \times \square = \square$$

What do you notice?

- 4 Write two multiplications for this array.



$$\square \times \square = \square$$

$$\square \times \square = \square$$

- 5 Draw an array to show 7×3
Complete the number sentence.

$$7 \times 3 = \boxed{}$$



Is there more than one way to draw the array?

- 6 Draw three different arrays to show 12



- 7 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		

- 8 Can you see the multiplications 5×4 and 4×5 in the array?



Talk about it with a partner.



Use Arrays

1. Match the arrays to the commutative calculations.

6×3



3×6

2×4



1×5

5×1



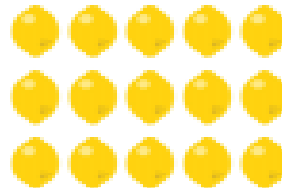
4×2

2. Which array shows 3 lots of 5 and 5 lots of 3?

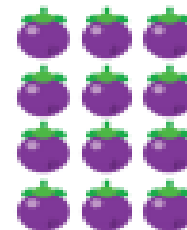
A.



B.



C.



3. Asha is describing an array to her friend.



My array has 18 counters.

What multiplications might Asha be solving? Give 3 examples.

Lesson 3:

The 2 times-table

- 1 Write a fact from the 2 times-table to match the picture.

a)



$$\square \times \square = \square$$

b)



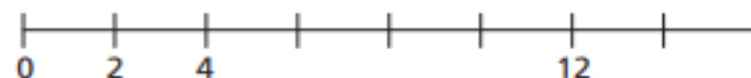
$$\square \times \square = \square$$

c)



$$\square \times \square = \square$$

- 2 a) Complete the number line.



- b) Which times-table does the number line show?

Tick your answer.

1 times-table 2 times-table

3 times-table

How do you know?

- 3 Complete the array and times-table fact so that they match.

a)



$$2 \times 2 = \square$$

b)



$$2 \times 5 = \square$$

c)



$$2 \times \square = 8$$

4 Complete the number sentences.

a) $3 \times 2 = \square$

f) $\square = 12 \times 2$

b) $\square = 9 \times 2$

g) $2 \times \square = 2$

c) $2 \times 5 = \square$

h) $2 \times 0 = \square$

d) $2 \times \square = 4$

i) $14 = 2 \times \square$

e) $12 = \square \times 2$

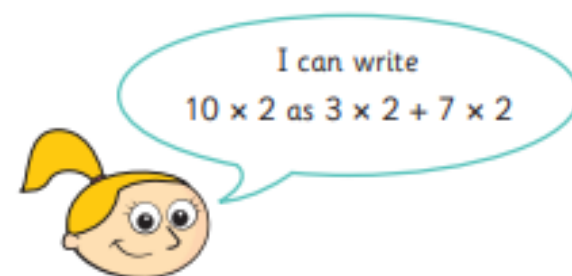
j) $\square \times 2 = 22$

5 Teddy has £8

Rosie has twice as much money as Teddy.
How much money does Rosie have?

Rosie has £ \square

6 Eva is writing 10×2 in different ways.



Find three more ways that you can write
 10×2

Use counters to help you.

$$\square \times \square + \square \times \square$$

$$\square \times \square + \square \times \square$$

$$\square \times \square + \square \times \square$$

Compare answers with a partner.

Lesson 4:

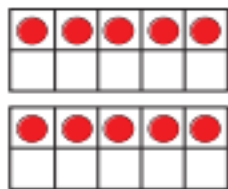
The 5 times-table



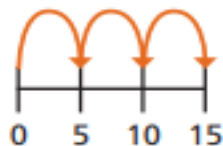
1 a) Match the picture to the times-table fact.



3×5



2×5



1×5

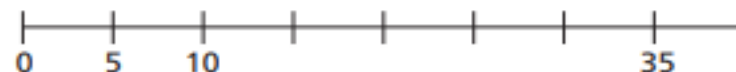


5×5

b) Draw a picture to show 4×5



2 a) Complete the number line.



b) Which times-table does the number line show?

Tick your answer.

1 times-table

2 times-table

5 times-table

How do you know?



3 Complete the number sentences.

a) $5 \times 5 = \square$

f) $\square = 11 \times 5$

b) $\square = 9 \times 5$

g) $5 \times \square = 5$

c) $5 \times 6 = \square$

h) $5 \times 0 = \square$

d) $5 \times \square = 40$

i) $10 = 5 \times \square$

e) $35 = \square \times 5$

j) $\square \times 5 = 60$

4 How much money does Ron have?



Complete the multiplication.

$\square \times \square = \square$

Ron has \square p.

5 Write $<$, $>$ or $=$ to compare the calculations.

7×5	\bigcirc	5×8
6×5	\bigcirc	$4 \times 5 + 2 \times 5$
2×5	\bigcirc	$3 \times 5 - 1 \times 5$
12×2	\bigcirc	2×12

6 A sandwich costs £2 and a box of crayons costs £5



Jack buys 5 sandwiches and 3 boxes of crayons.
How much does he spend in total?

Jack spends £ \square

Friday challenge

See how many challenges you can complete. They start of easy but get much more difficult!

Challenge 1

Jane is standing in a queue.

There are 5 people in front of her.

There are 2 people behind her.

How many people are in the queue?



Challenge 2



Rosie

I have 80 pence.

I have 12 pence.



Mo

Rosie gives Mo 25 pence.

How much more money does Rosie have than Mo now?

Challenge 3

If

$$70 + \text{yellow circle} = 100$$

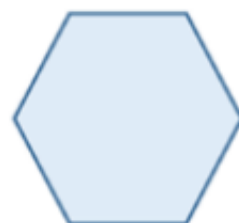
$$50 + \text{green triangle} = 100$$

$$\text{yellow circle} + \text{green triangle} + \text{blue square} = 100$$

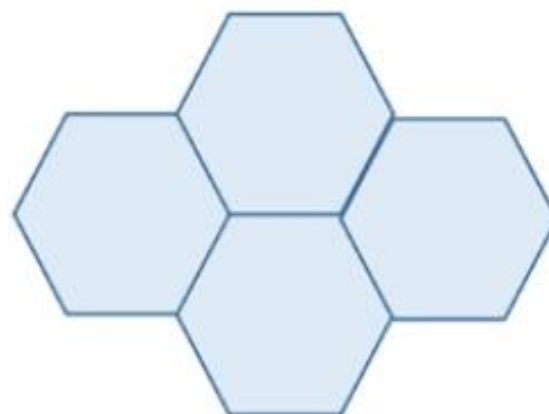
What is the value of the blue square?

Challenge 4

The perimeter of this regular hexagon is 42 cm.



Four of these hexagons are put together to make this shape.



What is the perimeter of the shape?