


WALT: Can I explain how many ways to make a number? Lesson 4 Week 2

Over the next two lessons we are going to look at how many ways we can make different numbers.

Let's look at this image to remind ourselves what we mean.

Maya is going to draw a coloured shape. She can choose from 2 different shapes and 3 different colouring pencils.



How many possible coloured shapes could she draw?

Shape	Colour
square	blue
square	green
square	yellow
circle	blue
circle	green
circle	yellow

6

Can you see that it is about how many ways you can do something? So you need to show all the possible ways or options. Not just one!!

Try this one!

Match the numbers to the total number of wheels.

5 cars and 2 motorbikes	28
8 tricycles and 2 bicycles	24
4 tricycles, 5 cars and 2 bicycles	36

Now let's try this...

Lyla is potting flowers. Complete the table to show how many possible flower and pot combinations she can make.


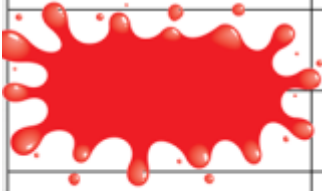
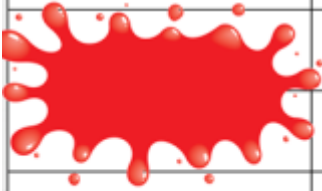



<u>Pot</u>	<u>Flower</u>
Hourglass	Tulip
Hourglass	Rose
Tea cup	Tulip
Tea cup	
Stripy	

Reasoning and Problem Solving

What are the missing combinations?

Use the rides and numbers that are already there to help you!

<u>Ride</u>	<u>Number of people per carriage</u>
Ferris Wheel	
	2
	1
Carousel	

Now have a go at this...

Chrissy found 18 combinations of monkeys and bears at the zoo.

How many different species of each creature **could** there be? There will be more than one answer for this.

Think about your times tables.

___ x ___ = 18 As long as it works it could be anything!



Your task!

Now, complete the Fluency and Reasoning and Problem Solving sheets in your pack for Lesson 4 Week 2.

How Many Ways?

1a. What are the missing combinations?

Fat	Size

2a. How many can you make? 4 different combinations from the list.

Teeth	Colour
	Blue
	Green
	Red

Is she correct? Prove it.

How Many Ways?

1b. What are the missing combinations?

Colour	Shape

2b. How many can you make? 9 different combinations from the list.

Shape	Colour
	Purple
	Yellow
	Orange

Is he correct? Prove it.

How Many Ways?

1a. Olivia is making breakfast. Complete the table to show how many possible breakfasts she can make.

Bakery goods	Spread
Bread	Honey
Bread	Jam
Croissant	
Croissant	

2a. Find the odd one out by finding how many combinations there could be.

A.

B.

C.

How Many Ways?

1b. Kim is making ice creams. Complete the table to show how many possible ice creams he can make.

Cones	Flavour
Plain	Cherry
Plain	Strawberry
Plain	Vanilla
Sprinkled	
Sprinkled	

2b. Find the odd one out by finding how many combinations there could be.

A.

B.

C.