

Welcome to Year 3 live maths lesson

The session will begin at 11.05



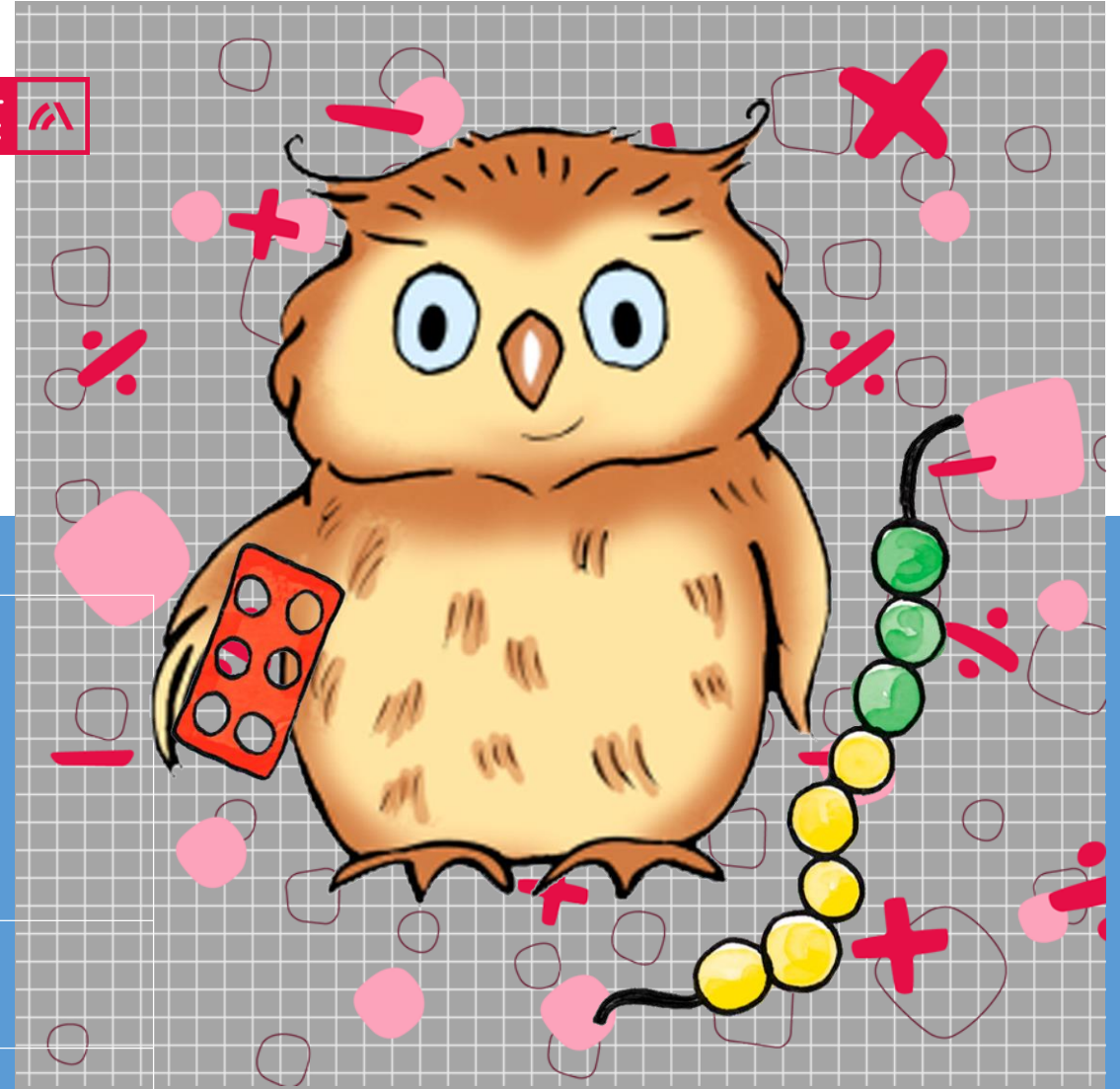
Turn your camera and microphone off please

Monday Live maths lesson
25.1.21

Year 3 Unit 7: Deriving multiplication and division facts

Lesson 1: Multiplication structures

Mathematics
Mastery



Maths Meeting Monday



25.1.21

450

- Read this number out loud.
- What is the value of the digit 4?
- What is the value of the digit 5?
- What is 10 less?

If the answer is 100

what could the question be?

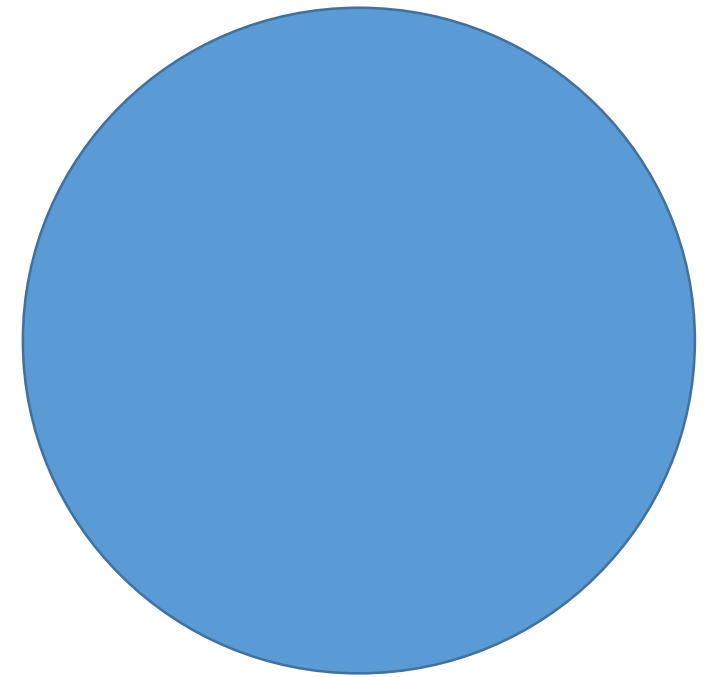
How many ways can we describe this array?



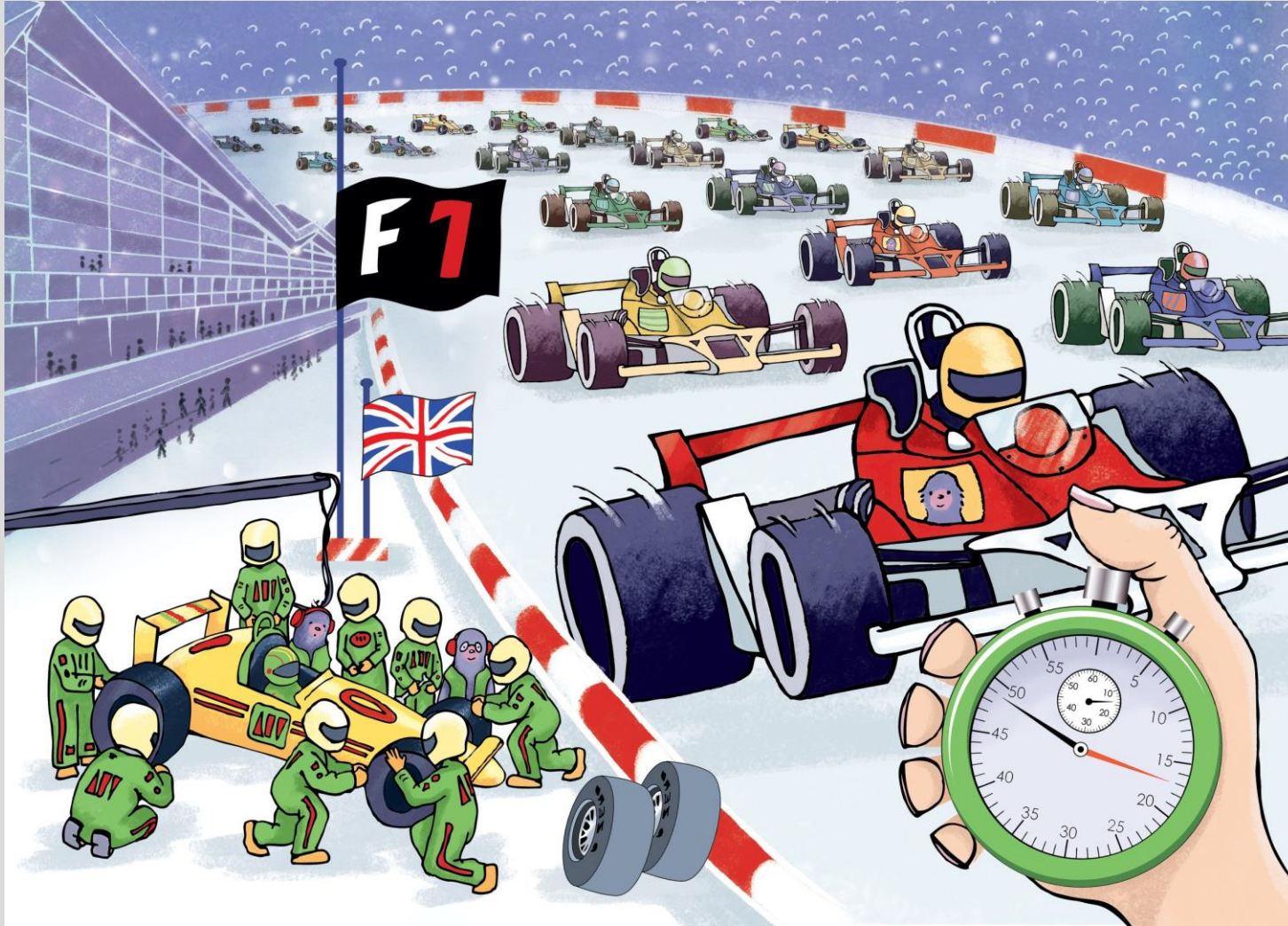
- $4 \times 3 =$
 - 12
- $9 \times 10 =$
90
- What is 100 less than 350?
 - 250
- What is 50 more than 250?
300
- If I have £40 to share between my friend and I how much will we each have?
 - £20

1 2 3 4 5 6 7 8 9

- How many different ways can you make 10 using these digits?
- With 2 digits?
- With 3 digits?
- Challenge: Could you use more than one operation?



Exploring the big picture



What maths can
you see here?

Wheels on cars

$$4 \times \underline{\quad} = \underline{\quad}$$

Counting the 5 minutes on stopwatch

$$5 \times \underline{\quad} = \underline{\quad}$$

If it takes 10 mechanics to fix a car
how many would be needed to fix
2 cars?



Do Now



Key learning: I will know how to compare multiplication structures

equal parts

whole

___ times as many

___ times as much

___ times greater

efficient

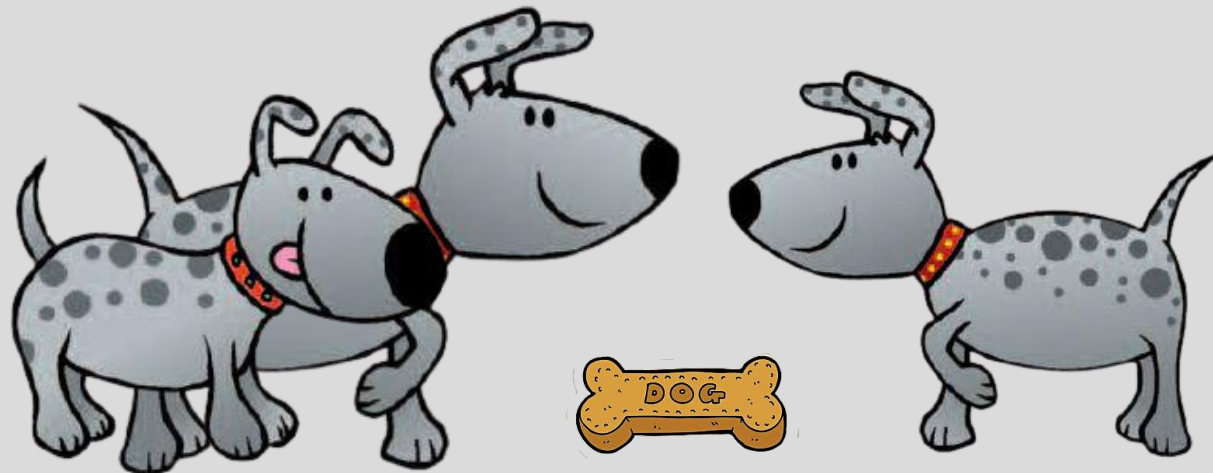


Star Words





Zara has **3** dogs. Each dog eats **5** biscuits.
How many biscuits do the dogs eat **altogether**?



I do



5



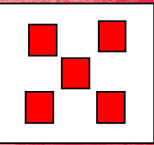
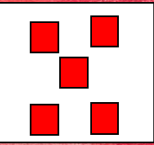
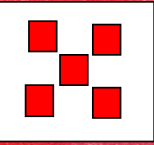
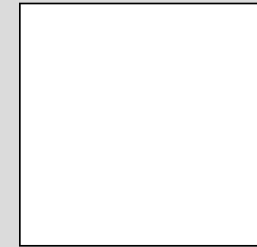
5



5

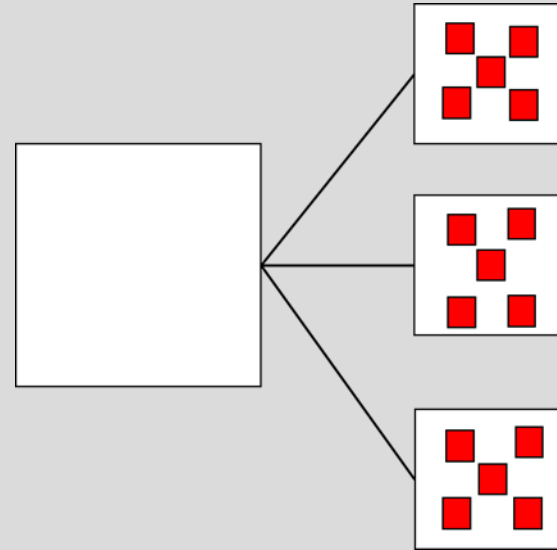
I know there are three equal parts (one for each dog) and each part has a value of five (the number of biscuits).

I don't know how many biscuits the dogs ate altogether.
To find this out, I need to calculate 5×3 (or 3×5)



So here's my calculation

$$5 \times 3 =$$



I do



Michael gives his dog three times as many biscuits as Zara gives to one of her dogs. How many biscuits does Michael's dog get?

Well I know that Zara's dog eats 5 biscuits.
Michael's dog eats 3 times this amount.
I will write my calculation.



Zara gives her dog 5 bones.



5

Michael gives his dog **three times** as many.

What calculation would we do to find this out?

$$3 \times \underline{\quad} = \underline{\quad}$$

and the answer is.....

$$3 \times 5 = 15$$

What was the same about these two problems?

SAME

They both were $\times 3$

DIFFERENT

Zara's problem was finding three equal parts

Michael's problem was finding

three times as many

We do

How many ways could you solve this?

$$4 \times 2$$

I could use my
two times tables

I know that $\times 2$
means double

I know that $\times 2$
means twice as
many which is the
same as doubling



You do



How many ways could you solve these calculations?

$$5 \times 5$$

The strategy I would use is.....



You do



How many ways could you solve these calculations?

$$3 \times 2$$

The strategy I would use is.....

$$3 \times 10$$

The strategy I would use is.....



Assignment

You have 20 minutes to go and find your assignment in the general folder.

Choose your chilli.



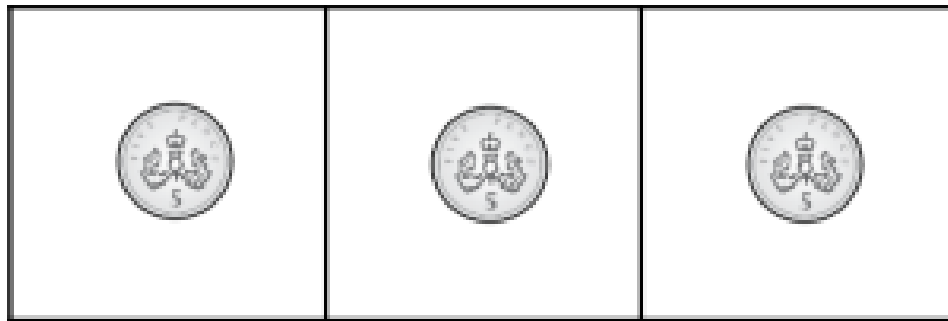
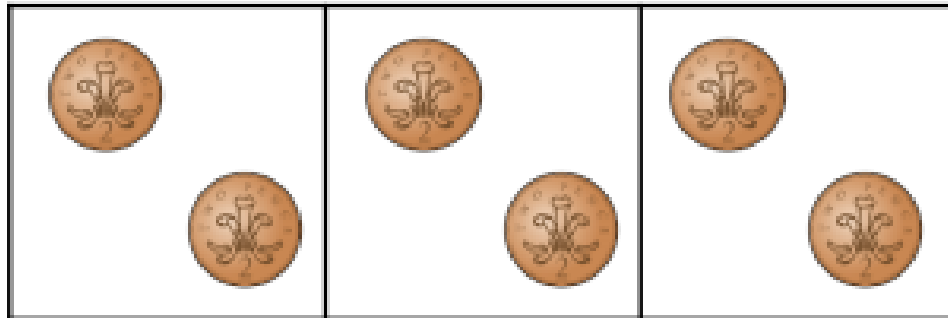
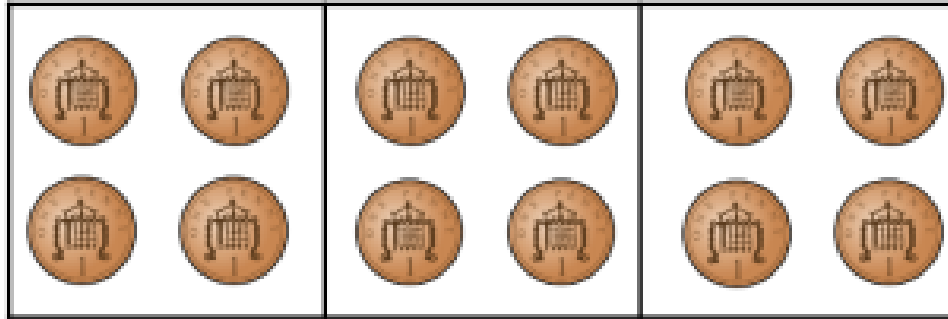
If you can't write on the assignment sheet you can copy it onto paper and take a photograph of it.

Meet back on here **after 20 minutes to give us all enough time.**

We will check some answers together.

Plenary

Which row of money is the odd one out?



Explain why.

Remember there is no right or wrong answer it is all about explaining **why**