



# **Year 6 Maths Thursday 11<sup>th</sup> June**



# Lesson Aims

- I can solve problems involving division.

Success Criteria:

- I read the problem carefully.
- I solve the calculation.
- I think carefully about whether I need to round up or down to answer the final question.



# Fluency Starter

Play social distance

Times Table tennis.

Times Table Ping Pong.



# Main Teaching

Yesterday we looked at how to divide using short division. Let's start with one example.

Remember – to successfully divide you need to know your times tables.

**Example:**  $17 \div 5 = 3.4$



This time we are going to change our 17 to its' decimal form 17.0 (this is the same number)

$$\begin{array}{r} 03.4 \\ 5 \overline{) \cancel{1}7^1.0^2} \end{array}$$

5 does not go into 1... so we have to cross it off and move it next to the 7

Instead, we carry the 2 with our next nearest digit... the 0

DON'T FORGET YOUR  
DECIMAL!

Finally, we can ask how many 5's will go into 20, the answer is 4.

So now, we can ask, how many 5's go into 17... 3 would make 15... remainder 2.



# Problems

Today we are going to solve word problems on division thinking carefully about when to round up and when to round down.



# Problem Solving

What would the answer be to this problem and why?

248 children are going on a school trip. 5 children go in each tent. How many tents are needed?



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What would the answer be to this problem and why?

248 children are going on a school trip. 5 children go in each tent. How many tents are needed?

$$248 \div 5 = 49.6 \text{ or } 49 \text{ r}3$$

This means 50 tents are needed because ....





# Problem Solving

What would the answer be to this problem and why?

248 eggs are put in boxes of 6. How many complete boxes can be sold?



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What would the answer be to this problem and why?

248 eggs are put in boxes of 6. How many complete boxes can be sold?

$$248 \div 6 = 41.3 \text{ or } 41 \text{ r } 2$$

This means 41 boxes can be made because ....



# Problem Solving

There are 12 crayons in each packet.

How many packets are needed for 200 crayons?

$$200 \div 12 = 16 \text{ rem. } 8 \text{ (round up)}$$

Answer: *17 packets are needed.*

Explain why the answer is 17.



# Problem Solving

There are 12 crayons in each packet.

How many packets can be made from 200 crayons?

$200 \div 12 = 16 \text{ rem. } 8$  (round down)

Answer: *16 packets can be made.*

Explain why the answer is 16



# Activity

Now have a go at solving the word problems on the activity sheet. Choose a section to complete.

A = Mild

B = Medium

C = Spicy



# Activity Answers

The answers to the activity are on an attachment titled  
ANSWERS.



# Review

Think of one of your own round up / round down problems.

Read it out and see if others in the class can solve it.