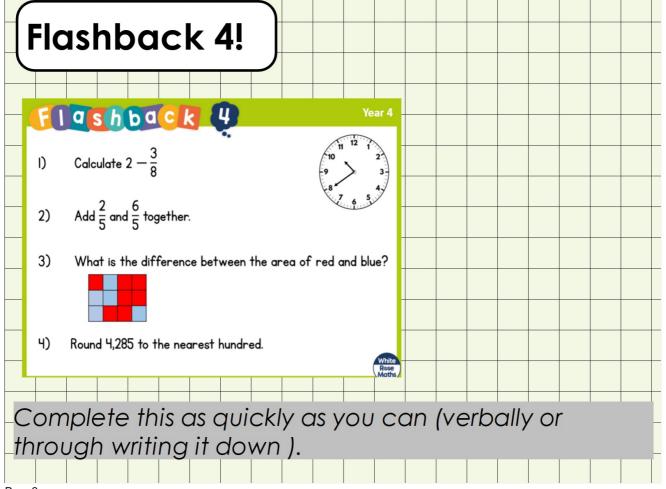
#### **Quick Maths - 25.2.21** B 08 x \_\_\_\_ = 6,400 o Add 100 to each of these numbers. Partition 30,539 1,801 970 14,300 ○ 5 squared = ○ 4/5 of \_\_\_ = 32 1,775 + 25 ONES and \_\_\_\_ HUNDREDS = ○ XX multiplied by V = 2,000 **Explain** ○ 820 - = 280 ○ 195 + 210 = Which method ○ 1/2 of 100 = and why? Ocmplete -**Investigation** Challenge - Explain Explain 'The difference between two numbers can be greater than their sum. Stage 1: complete using digits 0-9 Stage 2: complete using digits 1, 2, 3, 5, 6, 7, 9 Explain why this is true when one of the **How many** numbers is negative. ways?

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### **Quick Review! -**Multiplication

Example -  $50 \times 30$  (5 x 3 = 15) with the 2 0s = 1,500

$$800 \times 20 = 20 \times _{--} = 140$$

Challenge - Explain how you can use the inverse operation to solve these.

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<u>Learning Objective:</u>



Today I am learning to understand and calculate simple fractions of amounts.

# Key Vocabulary - fraction - denominator - division - total

- unit/ non-unit parts
- numerator equal
- improper set

Use the White Rose slides/video to support these teaching slides before you complete the main task.

#### Success Criteria

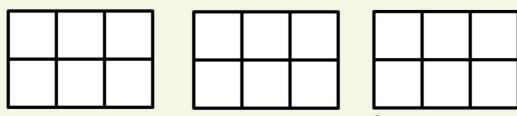
I will be successful if I can -

- O Recognise an amount as a
- O Understand the link between a total and division.
- O Calculate one part of an amount.
- O Calculate more than one part of an amount.

Recap!

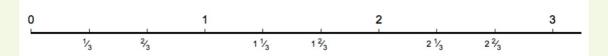
This is a review of subtracting from whole numbers from Tuesday's lesson.

A

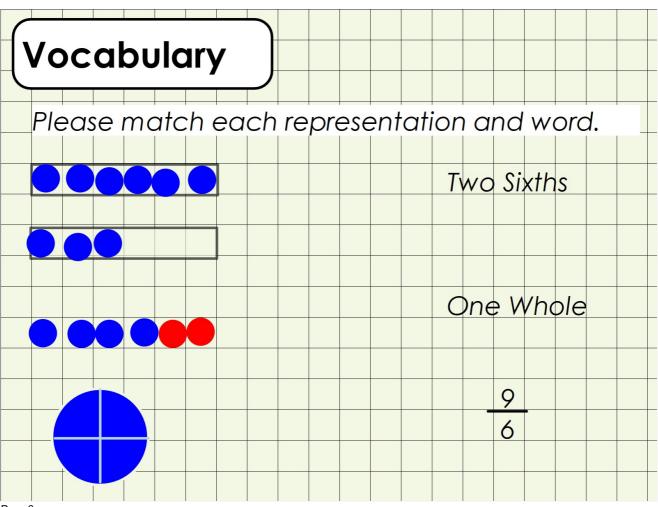


Can you show how to subtract  $\frac{4}{6}$  from 3?

Ben uses a numberline to find the difference between 3 and  $\frac{2}{3}$  can you show this on the numberline?

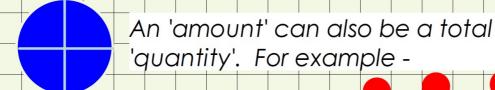


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### **Fractions of Amounts**

An 'amount' is not just one 'fixed' whole like below.



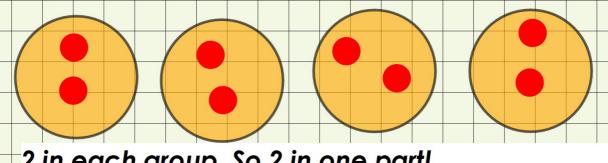
Here there are 8.

We can calculate a fraction of this amount.

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# **Fractions of Amounts** 2 Of 4

We **ALWAYS** divide the total by the denominator. This gives us one part. See how it shows below.

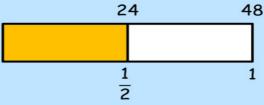


2 in each group. So 2 in one part!

#### Halves and Quarters

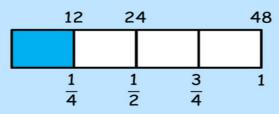
Finding  $\frac{1}{2}$  of an amount is the same as dividing that amount by 2.

e.g.  $\frac{1}{2}$  of 48 = 24



Once you have found  $\frac{1}{2}$  , you can easily find  $\frac{1}{4}$  by halving again.

e.g.  $\frac{1}{4}$  of 48 = 12



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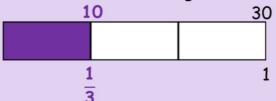
### Finding fractions of amounts

The denominator tells us how many parts to divide into.

Finding  $\frac{1}{3}$  of an amount is the same as dividing that amount by 3.

So 
$$\frac{1}{3}$$
 of 30 = 10

30 ÷ 3 = 10



The numerator tells us how many parts we want.

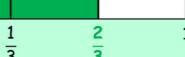
If we're asked to find  $\frac{2}{3}$  of an amount, we need 2 parts.

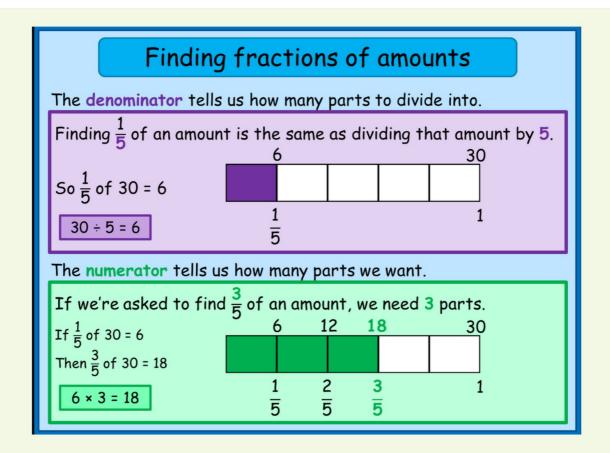
If 
$$\frac{1}{3}$$
 of 30 = 10

Then  $\frac{2}{3}$  of 30 = 20



10 20 30





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### **Main Task**

Remember to choose your own level of challenge. You can do more than one if you wish and move between tasks if you face difficulties!

### 25.2.21 Fractions of Amounts



Now complete '25.2.21 - A or B Task.

**Todays C challenge -** design a poster explaining how to calculate fractions of amounts. Use questions as examples and representations/diagrams!

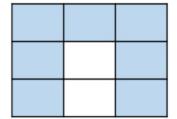
# Challenges

Find the missing fractions:

$$\frac{7}{7} - \frac{3}{7} = \frac{2}{7} + \frac{\square}{7}$$

$$\frac{\square}{9} - \frac{5}{9} = \frac{4}{9} - \frac{2}{9}$$

How many fraction addition and subtractions can you make from this model?



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