Year 6
Maths
Monday 15th June

Today's number is

6

Multiply by 6	
Double it	
Multiply by 10	
Divide by 2	
Divide by 10	
Divide by 6	
Answer is	

Today's number is

6

Square it	
Half it	
Multiply by 11	
Divide by 3	
Half it	
Divide by 11	
Answer is	

Today's number is

6

Multiply by 21	
Subtract 127	
Add 8.5	
Double it	
Multiply by 10	
Divide by 25	
Answer is	

Today's number is

6

Multiply by 6	**36**
Double it	**72**
Multiply by 10	**720**
Divide by 2	**360**
Divide by 10	**36**
Divide by 6	**6**
Answer is	

Today's number is

6

Square it	**36**
Half it	**18**
Multiply by 11	**198**
Divide by 3	**66**
Half it	**33**
Divide by 11	**3**
Answer is	

Today's number is

6

Multiply by 21	**126**
Subtract 127	**-1**
Add 8.5	**7.5**
Double it	**15**
Multiply by 10	**150**
Divide by 25	**6**
Answer is	

Lesson Aims

- I can find a fraction of an amount.

Success Criteria:

- I understand the need to divide by the denominator.
- I understand the need to multiply by the numerator.

Main Teaching

This week we are looking at fractions and percentages.

Today we are finding fractions of amounts.

Fluency

To find a fraction of an amount you need to divide by the bottom (denominator) and multiply by the top (numerator).

Example:

Find 3/5 of 40.

First divide the 40 by 5 because you are chopping the 40 into 5 equal parts.

$40 \div 5 = 8$

Fluency

To find a fraction of an amount you need to divide by the bottom (denominator) and multiply by the top (numerator).

Example:

Find 3/5 of 40.

First divide the 40 by 5 because you are chopping the 40 into 5 equal parts.

$40 \div 5 = 8$

Now multiply the 8 by 3 because you need to find 3 parts of the 5. The final answer will be 24.

Fluency

Try this one:

5/8 of 64.

Fluency

Try this one:

5/8 of 64.

Divide the 64 by 8 because you first need to find 1 part of the 8. This is 8.

Now multiply the 8 by 5 because you want 5 parts.

The answer is 40.

Fluency

Let's look at a couple of questions together.

Complete the statements using <, > or =.

$\frac{2}{5}$ of 650 ◯ $\frac{5}{7}$ of 364

$\frac{7}{8}$ of 416 ◯ $\frac{9}{10}$ of 400

Complete the statements using <, > or =.

$\dfrac{2}{5}$ of 650   **=** $\dfrac{5}{7}$ of 364

$\dfrac{7}{8}$ of 416   **>** $\dfrac{9}{10}$ of 400

True or false?

$$\frac{3}{8} \text{ of } 208 > \frac{3}{4} \text{ of } 316$$

True or false?

$$\frac{3}{8} \text{ of } 208 > \frac{3}{4} \text{ of } 316$$

False, 78 < 237

Fluency Activity

Now you need to try and complete some finding fractions of amount calculations.

Mild – Complete Section A

Medium and Spicy - Target Maths – pg23 – choose either B or C

Challenge – complete the challenge fluency. Choose from either expected or greater depth.

HOME LEARNERS – see the maths attachments.

Fluency Activity Answers

The answers will be included in the question documents.

Fluency

The next step on is missing box calculations involving fraction of amounts.

Lucas is completing the statement below.

$\frac{6}{8}$ of ☐ is 360

How could Lucas work out the answer?

Lucas is completing the statement below.

$\frac{6}{8}$ of ☐ is 360

You need to think about inverse. Instead of dividing by the bottom and multiplying by the top, because it is a missing box question you do the opposite.

Divide by the top and multiply by the bottom.

Fluency

Lucas is completing the statement below.

$$\frac{6}{8} \text{ of } \boxed{} \text{ is 360}$$

In this question you know what 6/8 is.

So 1/8 means dividing 360 by 6. This will give you 1 part.

Now multiply by 8 to find the 8 parts.

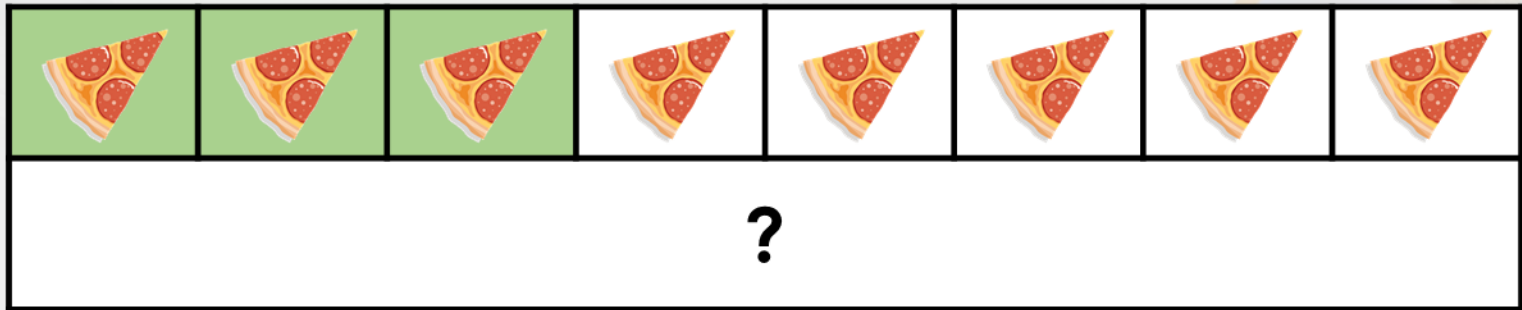360 divided by 6 = 60
60 multiplied by 8 is 480
Answer = 480

Fluency

Let's try and do a few different examples of this using pictures.

Amy buys 3 slices of pizza for 90p.

?

How much does the whole pizza cost?

Amy buys 3 slices of pizza for 90p.

£2.40

How much does the whole pizza cost?

90p ÷ 3 = 30p; 30p x 8 = £2.40

150 animals escaped from a zoo when there was a storm.

The animal keepers worked out that they had lost $\frac{3}{5}$ of their total number of animals.

Circle the number of animals the zoo had before some escaped.

| 90 | 200 | 250 |

150 animals escaped from a zoo when there was a storm.

The animal keepers worked out that they had lost $\frac{3}{5}$ of their total number of animals.

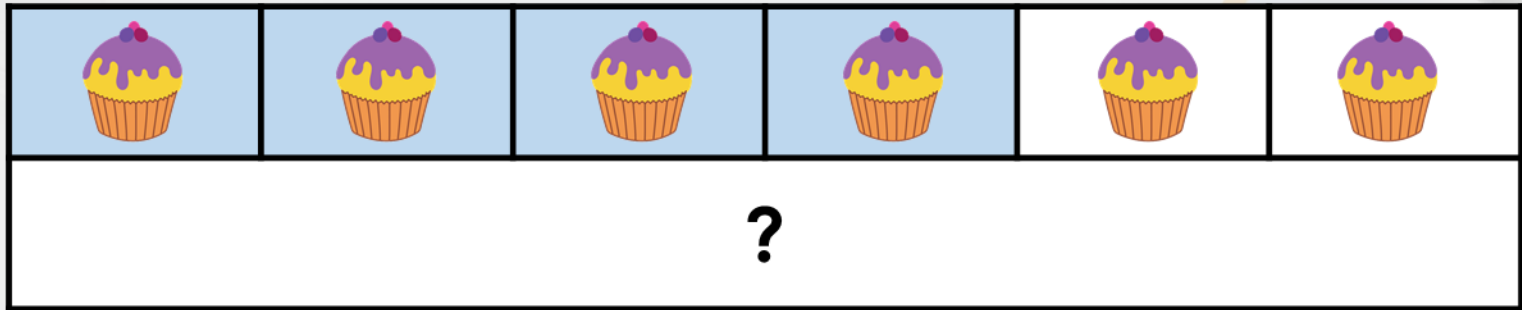**Circle the number of animals the zoo had before some escaped.**

90   200   **250**

Explain how you know the answer.

A bakery sold $\frac{4}{6}$ of its stock of cupcakes in September.

They sold a total of 240 cupcakes.

How many cupcakes did they have in stock to begin with?

A bakery sold $\frac{4}{6}$ of its stock of cupcakes in September.

They sold a total of 240 cupcakes.

360

How many cupcakes did they have in stock to begin with?

360 cupcakes.

240 ÷ 4 = 60, 60 x 6 = 360.

Fluency Activity

Now complete the calculations on missing box calculations. Choose from one of the three levels.

HOME LEARNERS

These are on an attachment on the website.

Review

- Can you review your learning?

- Can you explain to others how to solve fraction of amount calculations?