Year 6
Maths
Thursday 18thJune
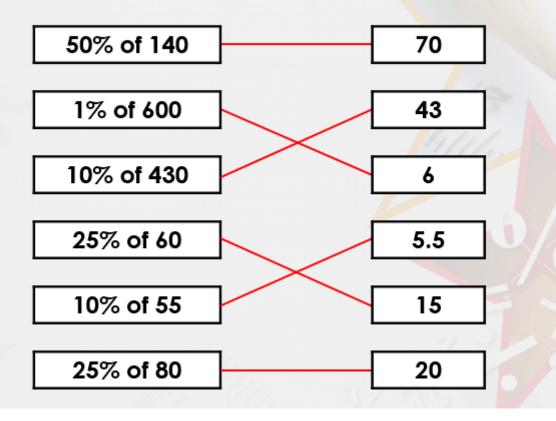
Starter

Fill in the gaps in the table using the options below.

25%   0.01   10% $\frac{1}{10}$ 0.5

4   1%   0.25   10   2

Fraction	Equivalent decimal	Equivalent percentage	Divide amount by:
$\frac{1}{2}$		50%	
$\frac{1}{4}$			
	0.1		
$\frac{1}{100}$			100

Starter

Match the questions to the correct answers.

50% of 140	70
1% of 600	43
10% of 430	6
25% of 60	5.5
10% of 55	15
25% of 80	20

Lesson Aims

- I can solve problems involving percentages of amounts.

Success Criteria:

- I understand percentage means out of 100.

- I understand 100% is one whole.

- I can relate fractions to percentages.

Main Teaching

Yesterday we did lots of learning on finding percentages of amounts. Today we are going to consolidate this learning and look at some problems on percentages.

Main Teaching Summary

To find…

10%	Divide by 10
1%	Divide by 100
50%	Divide by 2
20%	Find 10% and then x2
30%	Find 10% and then x3
40%	Find 10% and then x4
25%	Divide by 4

Main Teaching

Find 10% of the following numbers

1) 20	2) 50	3) 300	4) 550	5) 840
6) 560	7) 780	8) 25	9)66	10)78
11)89	12)897	13)654	14) 506	15)403

1) 2	2) 5	3) 30	4) 55	5) 84
6) 56	7) 78	8) 2.5	9) 6.6	10) 7.8
11) 8.9	12) 89.7	13) 65.4	14) 50.6	15) 40.3

Find the percentages shown. Explain how you worked them out.

Complete the table below.

	5%	10%	25%
200			
140			
160			

Main Teaching

	5%	10%	25%
200	10	20	50
140	7	14	35
160	8	16	40

Main Teaching

Talk to someone else.

Tell them all the things you can remember about finding a percentage of an amount.

Main Teaching

Let's solve some problems on percentages.

10% of the 130 apples in a barrel are rotten. How many can be eaten?

Let's solve some problems on percentages.

10% of the 130 apples in a barrel are rotten. How many can be eaten?

130 ÷ 10 = 13

13 apples are rotten.

130 – 13 = 117

117 apples can be eaten.

Main Teaching

Let's solve some problems on percentages.

30% of the children in Year 6 join the guitar club. This is 12 children. How many children are there in year 6?

Main Teaching

Let's solve some problems on percentages.

30% of the children in Year 6 join the guitar club. This is 12 children. How many children are there in year 6?

If 30% is 12 children.

10% must be 4 children

4 x 10 = 40

There are 40 children in Year 6.

Main Teaching

Let's solve some problems on percentages.

There are 180 children in a school. 30% have milk every day. How many children do not have milk?

Main Teaching

Let's solve some problems on percentages.

There are 180 children in a school. 30% have milk every day. How many children do not have milk?

180 ÷ 10 = 18

10% of 180 is 18

18 x 3 = 54 → 54 children have milk.

This means 180 – 54 = 126 do not have milk every day.

Activity

Now complete the word problem activities. Some of the problems might contain fractions from earlier in the week.

* = Mild

** = Medium

*** = Spicy

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Review

- Can you review your learning?

- Can you explain to others how to find a percentage of an amount?