Year 6 Maths Home Learning

Week three includes:

- 5 a day – one for each school day (set a timer for between 3 and 5 minutes)
- Maths I do you do – read the power point (40 minutes)
- Practice questions (60 minutes)
- Evidence questions (60 minutes)
- Extension questions – are you up for a challenge? (as long as it takes!)

Week 3   Day 1

1. 39 497 - 8473 =

2. ☐ = 78 ÷ 3

3. 4^2 + 27 =

4. 247 × 45 =

What are the missing digits?

	1	
+ 4		4
7	9	2

Week 3 Day 2

What is the difference between people who like cats the most and dogs the most?

Animal	Frequency
Dog	37 483
Rabbit	8727
Cat	28 092
Hamster	24 984

725 ÷ 25 =

37 232 + 12 925 =

383.49 + 74.84 =

1.042 × 10 =

Week 3 Day 3

384 + 245 =

$\boxed{}$ = 156 ÷ 6

. 15% of 340 =

. 100 × 634 =

Write the two missing values to make these equivalent fractions correct.

$$\frac{4}{\boxed{}} = \frac{12}{24} = \frac{\boxed{}}{36}$$

Week 3 Day 4

485 ÷ 5 =

317 × 7 =

9434 - 7484 =

$\frac{3}{5} ÷ 3 =$

A study of 900 people found that 687 were right-handed, 174 were left-handed and the remainder were ambidextrous (could use either hand).

How many people were ambidextrous?

$\boxed{} = 1\frac{1}{5} - \frac{4}{5}$

Complete the sequence by filling in the missing numbers.

348 ÷ 29 =

___ 58 71 ___ 97 ___

307 × 61 =

429.09 + 55.56 =
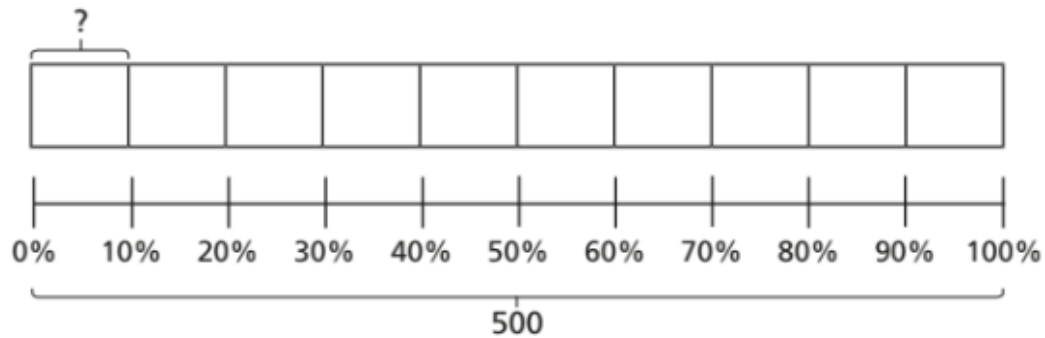
Practice questions

1 **a)** Use the bar model to find 10% of 500

?

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0%   10%   20%   30%   40%   50%   60%   70%   80%   90%   100%
```

500

10% of 500 = ☐

b) Use your answer to part a) to help you complete the calculations.

20% of 500 = ☐   70% of 500 = ☐

90% of 500 = ☐   60% of 500 = ☐

30% of 500 = ☐   100% of 500 = ☐

2 26 is 20% of what number?

Total = _____

10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

26
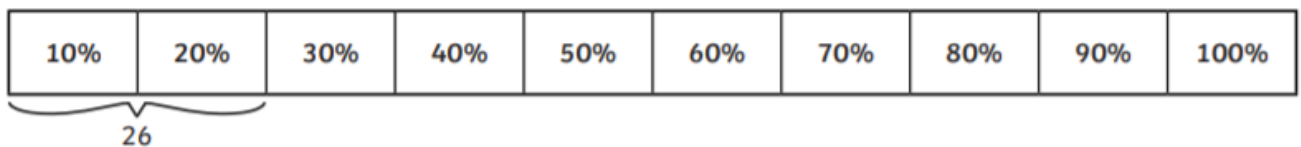
When the bar model shows 20%, how does this help us to find the whole number?

_____

_____

3 **b)** 10% of ⬚ = 342

?

0%   10%   20%   30%   40%   50%   60%   70%   80%   90%   100%

c) 50% of ⬚ = 342

?

0%   10%   20%   30%   40%   50%   60%   70%   80%   90%   100%
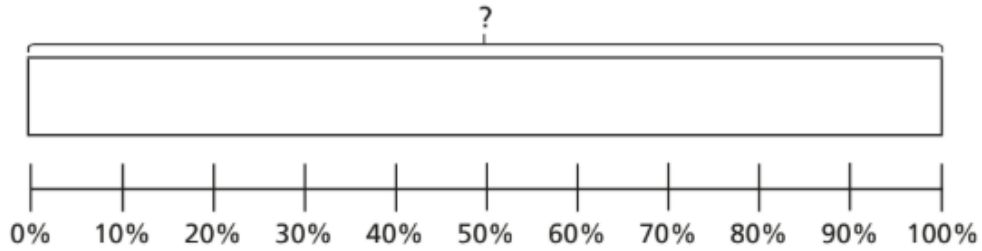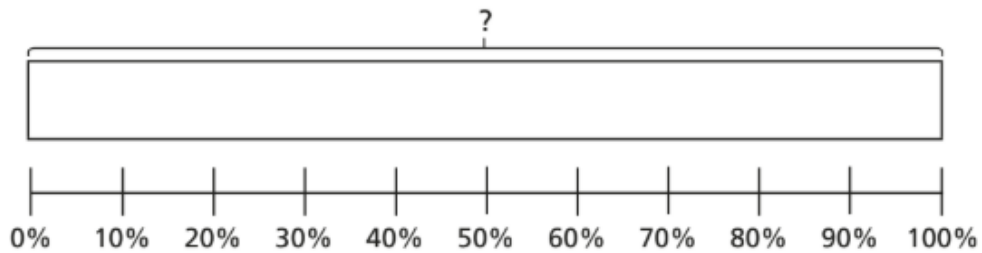
4 Complete the calculations.

a) 20% of ⬚ = 30

20% of ⬚ = 60

b) 10% of ⬚ = 40

5 40% of the children in a school are boys.

There are 188 boys in total.

a) How many children are there altogether?

⬚

b) How many girls are there?

⬚

6

I will find 10% and multiply it by 7, then find 5% and add them together.

b) Use Alex's method to find 75% of 340

7 Some children are asked to find 75% of 340

I will find 25% and multiply it by 3

a) Use Dexter's method to find 75% of 340

Evidence questions

1

c)   [ ]% of 400 = 100

[ ]% of 300 = 225

d)   80% of [ ] = 32

[ ]% of 32 = 8

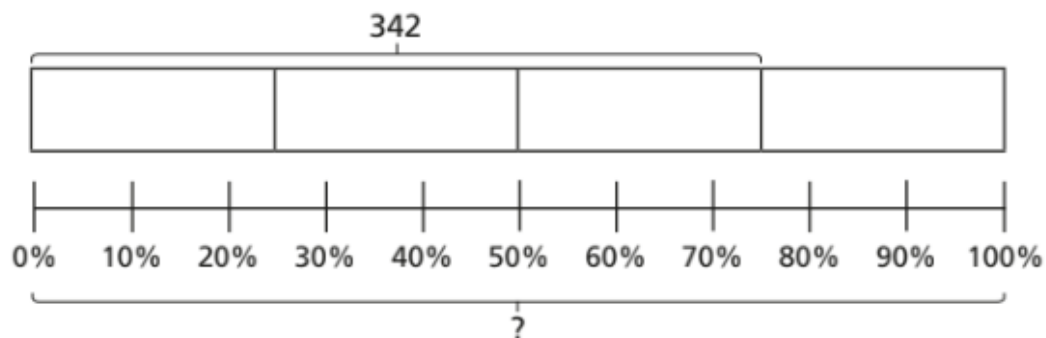**2**   Ron is calculating these percentages.

10% of 20   20% of 10

20% is double 10%, and 10 is half of 20, so I know these will both have the same answer.

How does Ron know this?

3   75% of [ ] = 342

342

0%   10%   20%   30%   40%   50%   60%   70%   80%   90%   100%

?

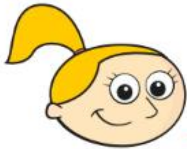**4** Find the missing number in each question.

a) 20% of _____ = 30

b) 30% of _____ = 120

c) 40% of _____ = 800

d) 60% of _____ = 1200

5 10% of [ ] = 200

I know that to find 10% I have to divide by 10, so the answer is 20

a) What mistake has Eva made?

6 True or False? Give an example that proves when a statement is true.

a) To find 30% of a number, I can divide the number by 10 then multiply by 3.

_____

_____

b) To find 30% of a number, I can divide the number by 30.

_____

_____

c) To find 30% of a number, I can divide the number by 100 then multiply by 30.

_____

_____

7 The table shows the number of people who visited a cinema over four days.

a) Fill in the missing information.

Day	Percentage of total visitors	Number of visitors
Thursday	10%	
Friday		448
Saturday	45%	
Sunday		
Total		2,240

b) How many more people went to the cinema on Saturday than Sunday?

[ ]

c) 60% of the visitors were children.

How many children went to the cinema?

[ ]

Extension questions

1) Use the information given to work out the size of a whole field and the missing measurements for each field.

Field A

18m²

Field B

420m²

20% of the field measures 18m².

The whole size of the field is _____.

55% + 15% of the field measures _____.

15% of the field measures 420m².

The whole size of the field is _____.

55% + 15% of the field measures _____.

2) A farmer wants to plant vegetable crops on some of his fields. He has two fields: the largest has an area of 480m² and the other has an area of 450m². For each of his crops, give the area that would be planted in both fields.

Crop	Area Covered by Crop in 480m² Field	Area Covered by Crop in 450m² Field
Potatoes: 25%	120m²	
Onions: 5%		
Cauliflower: 40%		
Carrots: 30%		