1

[2016S]

20% of 1,500 =

10% OF 1500 = 150

So 20% is 150
$\times$ 2
300

300

[1 mark]

2

[2016]

20% of 1,800 =

10% OF 1800 = 180

So 20% is 180
$\times$ 2
360

360

[1 mark]

3

[2000]

60% of 765 =

10% OF 765 = 76.5

So 60% is 76.5
$\times$ 6
459

459

[1 mark]

4 5% of £3600 =

10% OF £3600 = 360

So 5% IS 360 ÷ 2

= 180   £180

[1 mark]

5 15% of 460 =

10% OF 460 = 46

So 5% OF 460 = 23

So 15% IS 46 + 23 → 69

[1 mark]

6 200 children went on holiday.

10% of the children went to Wales.

25% of the children went to Scotland.

How many **more** children went to Scotland than went to Wales?

Show your method

WALES, 10% IS 20

SCOTLAND, 25% IS 50

DIFFERENCE IS 50 - 20 → 30

$\frac{1}{4}$!

[2 marks]

7

[2008]

Emily makes 250 grams of a snack mixture.

15% of the weight is raisins, 25% is banana chips and the rest is peanuts.   → 40%

How many grams of **peanuts** does she use?

Show your method

PEANUTS IS 60%

10% OR 250 = 25

So 60% IS 25×6 → 150 g

[2 marks]

8

[2015]

55% of 640 =

50% OR 640 = 320

So 5% OR 640 = 32

55% IS 320+32 → 352

[1 mark]

9

45% of 460 =

50% of 460 = 230

so 5% of 460 = 23

AND 45% is 230 - 23 → **207**

[1 mark]

10

250 000 people visited a theme park in one year.

15% of the people visited in April and

40% of the people visited in August.

} **55%**

How many people visited the park in the rest of the year?

Show your method

45% FOR THE REST OF THE YEAR

50% OF 250,000 = 125,000

5% is 12,500

so 45% is 125000

- 12500

112500

112,500

[2 marks]

11

[2016]

15% of 440 =

10% of 440 is 44
So 5% of 440 is 22

So, 15% is 44 + 22 → 66

[1 mark]

12

[2016S]

95% of 240 =

10% of 240 is 24
So 5% of 240 is 12
So 95% is 240
          − 12
         228

228

[1 mark]

13

[2017]

A cat sleeps for **12 hours** each day.

50% of its life is spent asleep.
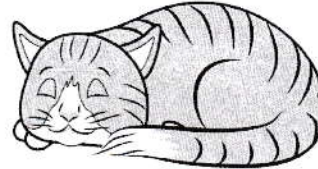
Write the missing percentage.

A koala sleeps for **18 hours** each day.

75 %   of its life is spent asleep.

$\frac{18}{24} = \frac{3}{4}$ → 75%

[1 mark]

14 **[2017]**

7% of 500 =

1% or 500 = 5

So 7% is 7×5 = 35

35

[1 mark]

15 **[2017]**

15% × 1,000 =

1% of 1000 = 10

So 15% is 15×10 = 150

150

[1 mark]

16 **[2010]**

If you know **40%** of a number, explain how you could work out the original number.

DIVIDE BY 4 TO GET 10%

THEN MULTIPLY BY 10 TO GET 100%

E.G. IF 40% WAS 112,

THEN 10% IS 28

SO 100% IS 280

[1 mark]

Liam did a survey of 55 people to see how many were left-handed.

Liam says,

'The results show that exactly 10% of the people in the survey are left-handed.'

Explain why Liam cannot be correct.

BECAUSE 10% OF 55 IS 5·5 AND YOU CANNOT HAVE 0·5 OF A PERSON!

[1 mark]

20% of Megan's number is 64

What is 50% of Megan's number?

Show your method

IF 20% IS 64
THEN 10% IS 32
So 50% IS 32×5 ⟶ 160

[2 marks]

Write in the missing numbers.

30% of 60 is [18] [0.3 × 60]
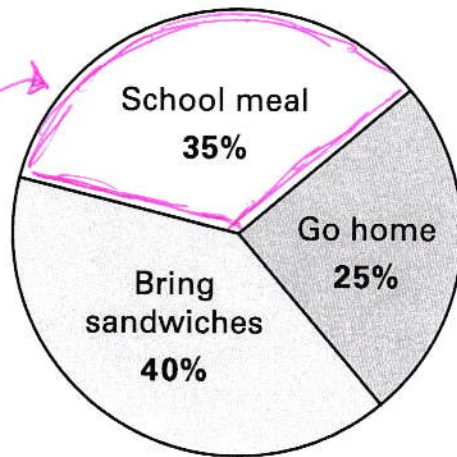
30% of [200] is 60 [30% is 60
10% is 20
100% is 200!]

[2 marks]

This pie chart shows the lunch choices of year 6 children at a school.

28 children in year 6 have a school meal.

How many **go home** for lunch?

Show your method

35% is 28

So,

5% is 4

So

25% is 20 → [20]

[2 marks]