

1.

Amina asked 60 children to choose their favourite flavour of jelly.

These were her results.

Flavour	Number of children
Raspberry	12
Lemon	8
Orange	15
Blackcurrant	25
Total	60

What **percentage** of the 60 children chose orange?

1 mark

2.

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.

of its life is spent asleep.



1 mark

3.

20% of the children in a sports club play tennis.



25% of the children who play tennis **also** play rounders.



There are 8 children in the club who play **both** tennis and rounders.

How many children are there in the sports club **altogether**?

Show your method

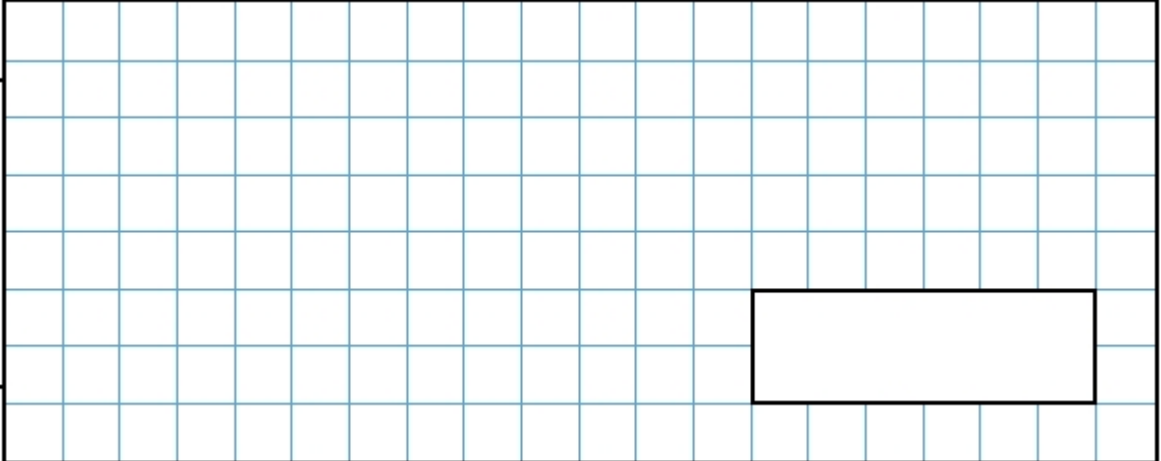
2 marks

4.

20% of Megan's number is 64

What is 50% of Megan's number?

Show your method



2 marks

5.

Write these in order of size, starting with the smallest.

$\frac{3}{4}$	0.34	0.7	43%
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

smallest

1 mark

6.

Write the missing number.



Original price £60

Reduced by %

Now only £45

1 mark

7.

What is 10% of a half?

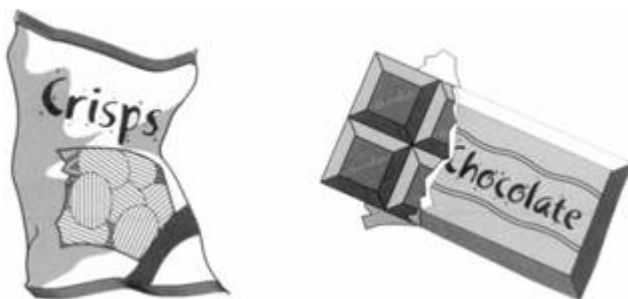
1 mark

What percentage of 20 is 19?

 %

1 mark

8.



In Class 6, **80%** of the children like crisps.

75% of the children **who like crisps** also like chocolate.

In Class 6, what percentage of the children like **both** crisps and chocolate?

Show
your
method

%

2 marks

9.

Chloe and Denise each bought identical T-shirts from the same shop.

Chloe bought hers on Monday when there was **15% off** the original price.



Denise bought hers on Friday when there was **20% off** the original price.



Chloe paid **35p more** than Denise.

What was the **original price** of the T-shirt?

Show your method

£

2 mark

10.

Linda buys a pair of trainers.



She says,

'I bought this pair of trainers when there was 20% off the normal price. I paid £18 for them.'

What was the **normal** price of the trainers?

Show
your
method

£

2 marks

Mark schemes

1. 25 [1]

2. 75 [1]

3. 160 2

or

32 seen (*number who play tennis*)

Do not accept 32% seen

OR

Shows or implies a complete correct method, eg:

- $8 \times 4 \times 5$
- 25% of tennis is 8
 $8 \times 4 = 24$ (*error*)
tennis is 20% of sports club
 $24 \times 5 = 120$

1

[2]

4. Award **TWO** marks for the correct answer of 160

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

- $64 \div 2 = 32$
 $64 + 64 + 32 =$ wrong answer

OR

- $64 \times 5 = 320$
 $320 \div 2 =$ wrong answer
*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2
U1

[2]

5.

Numbers in order as shown:

0.34

43%

0.7

$\frac{3}{4}$

Accept use of equivalent fractions, decimals or percentages, eg 0.34, 0.43, 0.7, 0.75

[1]

6.

25 %

Do not accept equivalent fractions or decimals

[1]

7.

(a) $\frac{1}{20}$ or equivalent

Accept equivalent fractions, decimals
or percentages, eg:

- 5%
- 0.05
- $\frac{5}{100}$

Do not accept 5 without a percentage sign

1

(b) 95

Do not accept equivalent fractions or decimals

1

[2]

8.

Award **TWO** marks for the correct answer of 60%

If the answer is incorrect, award **ONE** mark
for evidence of an appropriate method, eg

$$\frac{75}{100} \times 80$$

Answer need not be obtained for the award of the mark.

Up to 2

[2]

9.

Award **TWO** marks for the correct answer of £7 **OR** £7.00

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg

$$5\% = 35$$

$$100\% = 35 \times 20$$

*Accept for **TWO** marks £7.00p **OR** £7 00*

*Accept for **ONE** mark £700 **OR** £700p as evidence of an appropriate method.*

Up to 2

[2]

10.

Award **TWO** marks for the correct answer of £22.50

If answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg:

$$18 \times \frac{100}{80}$$

OR $18 \div 4 = 4.5$

AND $18 + 4.5 =$ incorrect answer

Accept any clear indication of the distinction between pounds and pence

*Accept £22.50p **OR** £22.50.*

*Accept 22.50 **OR** 2250p written outside the answer box.*

*Incorrect answers include £2250 **OR** £2250p **OR** 2250 **OR** 22.50p written outside the answer box.*

*Calculation need not be performed for the award of **ONE** mark, but the method shown must be capable of producing the correct answer.*

Up to 2

[2]