

**Q1.**

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

$\frac{3}{4}$       0.34      0.7      43%

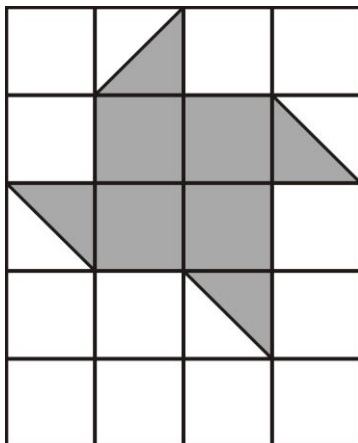
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smallest

1 mark

**Q2.**

Here is a grid of 20 squares.



What percentage of the grid is shaded?

%
---

1 mark

**Q3.**

Here are three symbols.

<      >      =

Write one symbol in each box to make the statements correct.

$$\frac{7}{10} \quad \boxed{\phantom{00}} \quad 0.07$$

$$\frac{23}{1000} \quad \boxed{\phantom{00}} \quad 0.23$$

1 mark

**Q4.**

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

$$\frac{2}{3} \quad 0.5 \quad \frac{3}{5} \quad 0.65$$

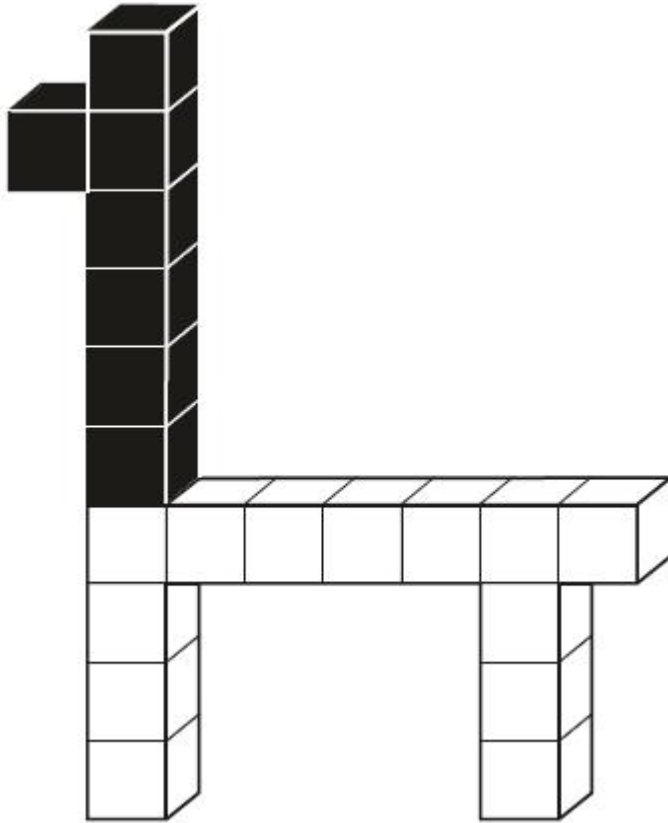
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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smallest

1 mark

**Q5.**

This model is made with 20 cubes.



What **percentage** of the cubes in the model is black?

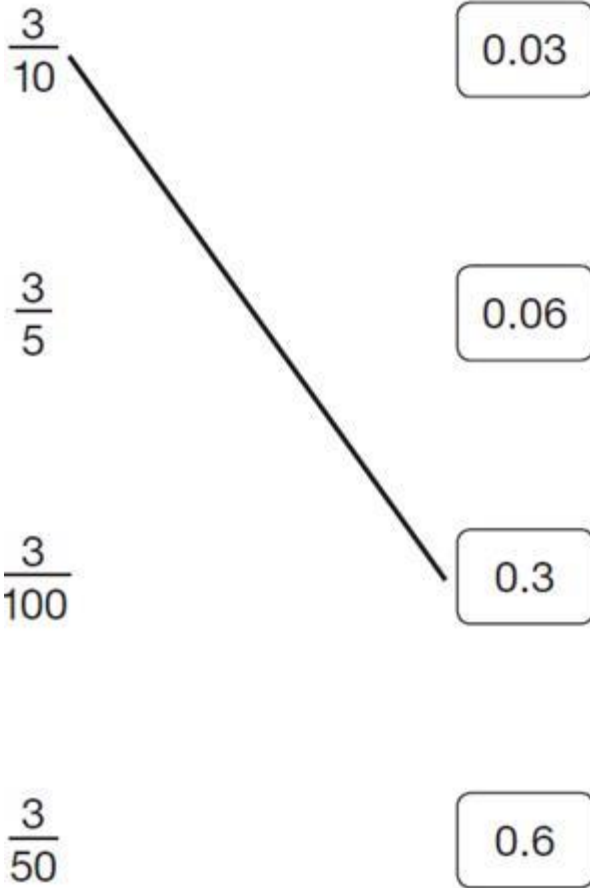
 %

1 mark

**Q6.**

Join each fraction to the correct decimal card.

The first one has been done for you.



1 mark

**Q7.**

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
<b>Total</b>	<b>60</b>

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

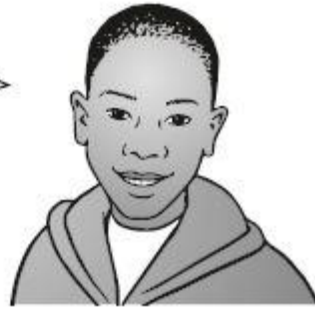
%

1 mark

**Q8.**

Adam says,

0.25 is smaller than  $\frac{2}{5}$



Explain why he is correct.

A large, empty, cloud-shaped box with a scalloped border, intended for the student to write their explanation.

1 mark

**Q9.**

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

**Q10.**

Put a tick (✓) in **each row** to complete this table.

One has been done for you.

	greater than $\frac{1}{2}$	less than $\frac{1}{2}$
<b>0.9</b>	✓	
<b>0.06</b>		
<b><math>\frac{11}{20}</math></b>		
<b>0.21</b>		

2 marks

**Q11.**

What is 10% of a half?

1 mark

What percentage of 20 is 19?

 %

1 mark

**Q12.**

In each box, circle the number that is **greater**.

$1\frac{1}{2}$	1.2
----------------	-----

$1\frac{1}{4}$	1.3
----------------	-----

$1\frac{5}{100}$	1.4
------------------	-----

$1\frac{3}{5}$	1.5
----------------	-----

2 marks

**Q13.**

Tick the fractions that are **equal** to 20%.

$$\frac{1}{20} \quad \square$$

$$\frac{20}{40} \quad \square$$

$$\frac{1}{5} \quad \square$$

$$\frac{3}{15} \quad \square$$

$$\frac{2}{100} \quad \square$$

2 marks

**Q14.**

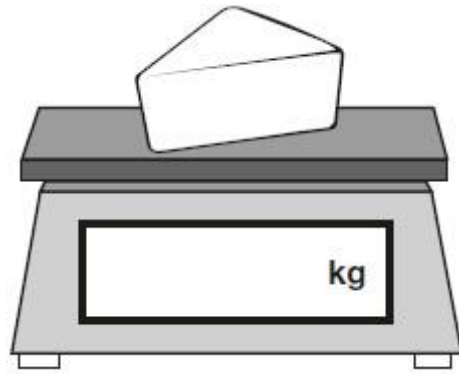
Amina is shopping.

She says,



I would like to buy **one-quarter** of a kilogram of cheese.

Write one-quarter on the scales as a decimal.



1 mark

The cheese costs £1.35

Amina pays with a £2 coin.

How much change should Amina get?

1 mark

**Q15.**

Tick the **two** numbers that are equivalent to  $\frac{1}{4}$

Tick **two**.

0.25

0.75

$\frac{25}{100}$

0.5

$\frac{2}{5}$

1 mark



## Mark schemes

**Q1.**

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]

**Q2.**

30%

***Do not*** accept equivalent fractions or decimals.

[1]

**Q3.**

Both symbols correct, as shown:

$\frac{7}{10}$	<table border="1"><tr><td>&gt;</td></tr></table>	>	0.07
>			

$\frac{23}{1000}$	<table border="1"><tr><td>&lt;</td></tr></table>	<	0.23
<			

[1]

**Q4.**

Numbers in order, as shown:

0.5	$\frac{3}{5}$	0.65	$\frac{2}{3}$
-----	---------------	------	---------------

*Accept equivalent decimals, percentages or fractions.*

[1]

**Q5.**

35%

[1]

**Q6.**

Fractions connected correctly to decimals as shown:



[1]

Q7.

25

[1]

Q8.

An explanation showing that 0.25 is less than  $\frac{2}{5}$ , e.g.

- $\frac{2}{5}$  is  $0.4 > 0.25$
- 0.25 is  $\frac{5}{20} < \frac{8}{20}$
- 0.25 is 25% and  $\frac{2}{5}$  is 40% and 25% is smaller than 40%
- 0.25 is a quarter.

You need 8 quarters to make 2, but only 5 lots of  $\frac{2}{5}$  to make 2

- $\frac{2}{5} = 0.4$
- $\frac{1}{4}$  is  $\frac{1}{4}$  smaller than a half, but  $\frac{2}{5}$  is only  $\frac{1}{10}$  smaller,  
so  $\frac{1}{4}$  is smaller than  $\frac{2}{5}$

**Do not** accept vague, incomplete or incorrect explanations, e.g.

- Because  $\frac{1}{4}$  is bigger than  $\frac{2}{5}$
- Because  $\frac{1}{4}$  comes first on a number line
- Because 0.25 is  $\frac{1}{4}$

Accept  $\frac{2.5}{10}$  ;  $\frac{4}{10}$  n equivalent to  $\frac{1}{4}$  in an explanation when comparing to

[1]

**Q9.**

75

[1]

**Q10.**

Award **TWO** marks for the table correctly completed as shown:

✓	
	✓
✓	
	✓

If the table is not correctly completed award **ONE** mark for any two out of three ticks correct.

**Do not** accept any row that has both columns ticked.  
Accept unambiguous alternatives to ticks, eg 'yes'.

Up to 2

[2]

**Q11.**

(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]

**Q12.**

Award **TWO** marks for all four rows completed correctly as shown:

$1\frac{1}{2}$	1.2
----------------	-----

$1\frac{1}{4}$	1.3
----------------	-----

$1\frac{5}{100}$	1.4
------------------	-----

$1\frac{3}{5}$	1.5
----------------	-----

If the answer is incorrect, award **ONE** mark for three rows completed correctly.

*Accept alternative unambiguous positive indications of the correct numbers, e.g numbers ticked.*

Up to 2m

[2]

**Q13.**

Award **TWO** marks for two boxes ticked correctly, as shown:

$\frac{1}{20}$	<input type="checkbox"/>
$\frac{20}{40}$	<input type="checkbox"/>
$\frac{1}{5}$	<input checked="" type="checkbox"/>
$\frac{3}{15}$	<input checked="" type="checkbox"/>
$\frac{2}{100}$	<input type="checkbox"/>

If the answer is incorrect, award **ONE** mark for:

- only **ONE** box ticked correctly and no incorrect boxes ticked

- **TWO** boxes ticked correctly and **ONE** incorrect box ticked.  
*Accept alternative unambiguous positive indication of the correct answer, e.g. Y.*

Up to 2m

[2]

**Q14.**

- (a) 0.25

*Do not accept  $\frac{1}{4}$  or any other fraction*

1

- (b) 65(p) **OR** (£)0.65

1

[2]

**Q15.**

Both boxes ticked, as shown:

Tick two.

0.25

0.75

$\frac{25}{100}$

0.5

$\frac{2}{5}$

*As pupils are told to select **two** boxes, alternative unambiguous positive indications, e.g. Y, of the correct answer are accepted.*

*Both correct boxes must be ticked for the award of the mark. No additional boxes must be ticked.*

[1]