

1

Here are three symbols.

< > =

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

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

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

1 mark

2

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

3

John had £5

He gave 25% of it to charity.

How much did he give?

£

1 mark

4

Complete the table.

fraction	decimal
$\frac{67}{100}$	0.67
	0.3
$\frac{7}{10}$	
	0.09
$\frac{93}{100}$	

2 marks

5

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

$\frac{2}{3}$

0.5

$\frac{3}{5}$

0.65

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smallest

1 mark

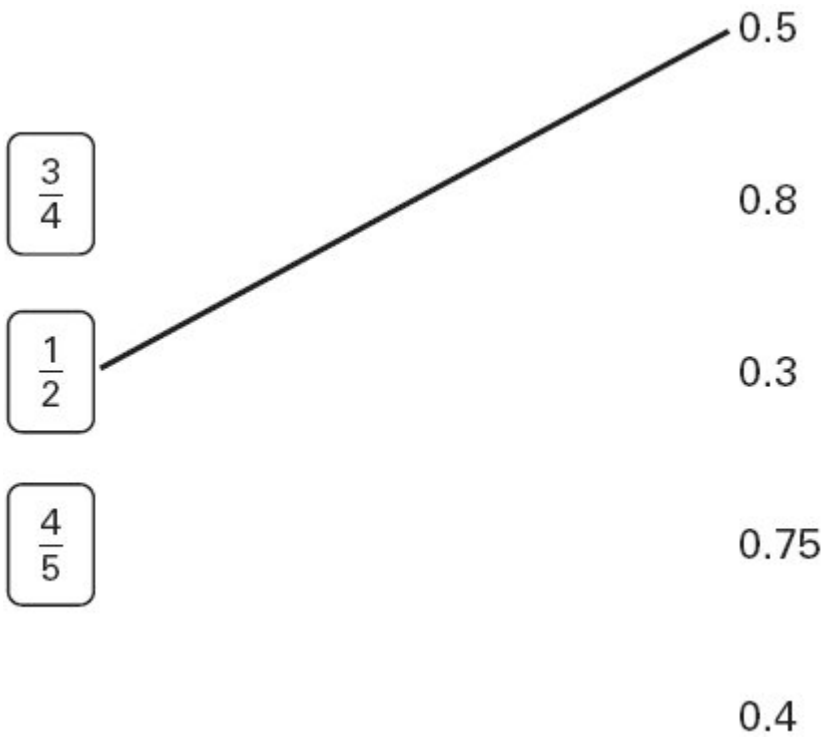
6 Circle the **two** fractions that are equivalent to **0.6**

$$\frac{6}{10} \quad \frac{1}{60} \quad \frac{60}{100} \quad \frac{1}{6}$$

1 mark

7 Match each box to the number which has the same value.

One has been done for you.



1 mark

8

Hassan scores 40 out of 80 in a test.

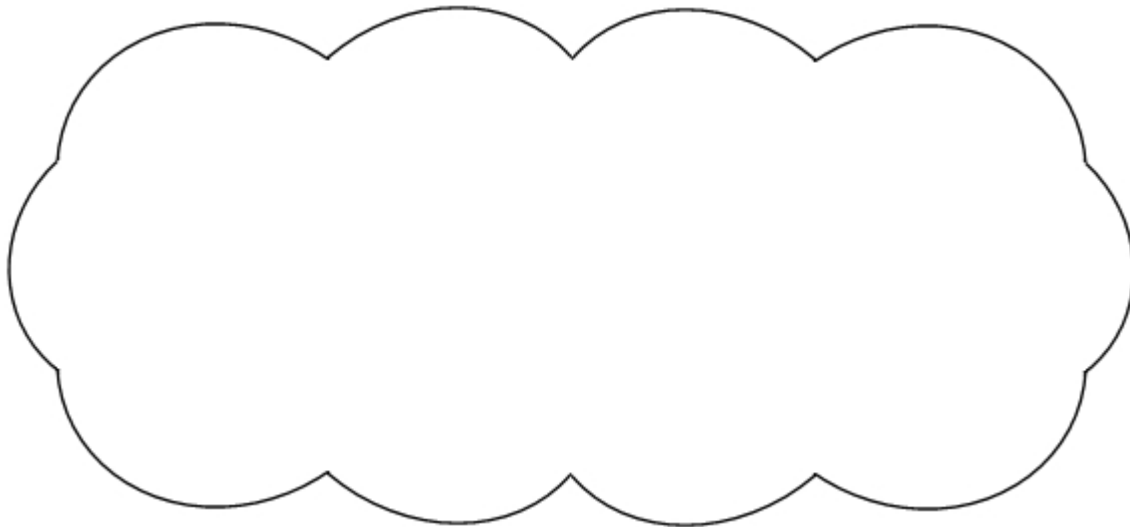
Kate scores 40% in the same test.

Who has the higher score?

Circle **Hassan** or **Kate**.

Hassan / Kate

Explain how you know.



1 mark

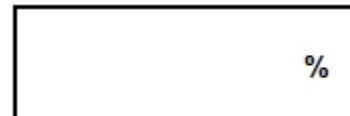
9

What is 10% of a half?



1 mark

What percentage of 20 is 19?



1 mark

10

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

11In 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

12Tick the fractions that are **equal** to 20%.

$\frac{1}{20}$

$\frac{20}{40}$

$\frac{1}{5}$

$\frac{3}{15}$

$\frac{2}{100}$

2 marks

13 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

1

Both symbols correct, as shown:

$$\frac{7}{10} \quad \boxed{>} \quad 0.07$$

$$\frac{23}{1000} \quad \boxed{<} \quad 0.23$$

[1]

2

25

[1]

3

£1.25

Accept also £1-25, £1.25p or £1 25 (with a clear gap between the 1 and 25).

[1]

4

Award **TWO** marks for the table completed as shown.

fraction	decimal
$\frac{67}{100}$	0.67
$\frac{3}{10}$	0.3
$\frac{7}{10}$	0.7
$\frac{9}{100}$	0.09
$\frac{93}{100}$	0.93

Award **ONE** mark for any three numbers correct.

[2]

5

Numbers in order, as shown:

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

Accept equivalent decimals, percentages or fractions.

[1]

6

Two fractions circled as shown:

$$\frac{6}{10} \quad \frac{1}{60} \quad \frac{60}{100} \quad \frac{1}{6}$$

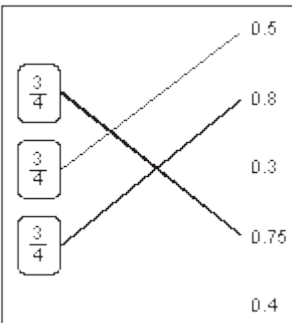
Both fractions must be indicated for the award of the mark.

Accept any other clear way of indicating the correct fractions, such as ticking or underlining.

[1]

7

Diagram completed correctly as shown:



Both lines must be drawn correctly for the award of the mark.

Lines need not touch boxes or numbers exactly, provided the intention is clear.

[1]

8

An explanation which correctly compares two percentages or two scores, eg:

- '40 out of 80 is 50%'
- '50% is more than 40%'
- '40% of 80 is 32'
- '40 out of 80 is better than 40 out of 100'
- '40 out of 80 is more than 32 out of 80'
- 'Kate has less than half marks'.

No mark is awarded for circling 'Hassan' alone.

Do not accept vague or incomplete explanations, eg:

- 'Hassan has half marks'
- 'Percentages are bigger'
- 'Hassan has more than 40%'
- 'Kate has less than 40 out of 80'.

If 'Kate' is circled but a correct unambiguous explanation is given, then award the mark.

U1

[1]

9

(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]

10

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

[1]

11Award **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]**12**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]

13

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]