

Test Base Questions

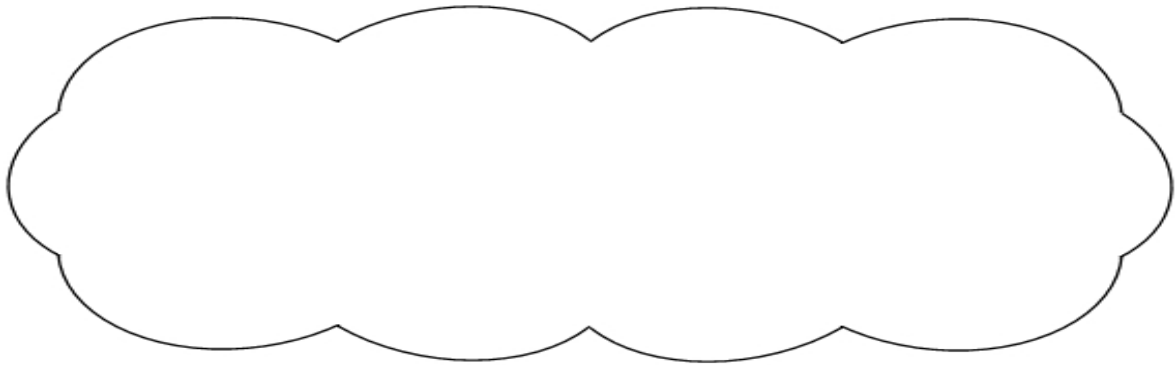
Q1.

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.



1 mark

Q2.

Write in the missing numbers.

30% of 60 is

1 mark

30% of

is 60

1 mark

Q3.

Calculate **5%** of **£3600**

1 mark

Q5.

Match each fraction to its correct percentage equivalent.

$$\frac{2}{5}$$

$$2\%$$

$$4\%$$

$$\frac{2}{50}$$

$$5\%$$

$$20\%$$

$$\frac{5}{100}$$

$$40\%$$

2 marks

Q6.

Match each fraction to its correct percentage equivalent.

$$\frac{12}{50}$$

$$12\%$$

$$16\%$$

$$\frac{12}{75}$$

$$24\%$$

$$40\%$$

$$\frac{24}{40}$$

$$60\%$$

2 marks

Q7.

Circle the fractions that are equal to 60%

$$\frac{6}{20}$$

$$\frac{1}{60}$$

$$\frac{3}{5}$$

$$\frac{6}{10}$$

$$\frac{6}{60}$$

$$\frac{36}{60}$$

2 marks



Let's Investigate

| | | | | |
|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 |

| | | |
|---|---|---|
| % | × | = |
|---|---|---|

Using some or all of the 0–9 digit cards and the %, × and = cards, how many different statements can you make?



For example:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | 0 | % | × | 9 | 5 | = | 3 | 8 |
|---|---|---|---|---|---|---|---|---|

Mark schemes For Test Base

Q1.

An explanation which recognises that 10% of 55 is not a whole number, eg:

- '10% of 55 is $5\frac{1}{2}$, and you can't have $5\frac{1}{2}$ people'
- 'It wouldn't be a whole number of people'
- 'No whole number out of 55 will give you 10%'
- 'If it was 5 people, 5 out of 55 isn't 10%.
6 out of 55 isn't 10% either'
- 'Because you can't have half a person.'
- $5\frac{1}{2}$,

Do not accept vague or incomplete explanations, eg:

- 'You can't get 10% of 55'
- 'Some children write with both hands.'

U1

[1]

Q2.

(a) 18

Do not accept 18%

1

(b) 200

Do not accept 200%

*If the answer for part (a) is 18% **AND** the answer for (b) is 200%, award*

ONE mark only in the part (b) box.

1

[2]

Q3.

£180

Do not accept 180%

[1]

Q4.

Award **TWO** marks for the correct answer of 112 500

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

- 45% of 250 000

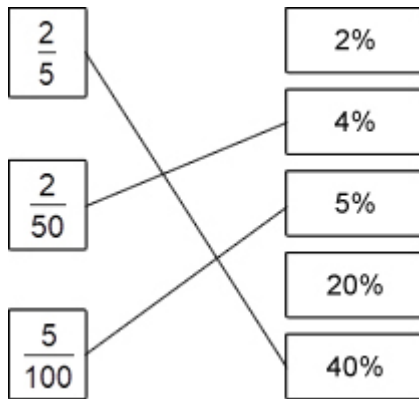
*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

Q5.

Award **TWO** marks for the percentages matched as shown:

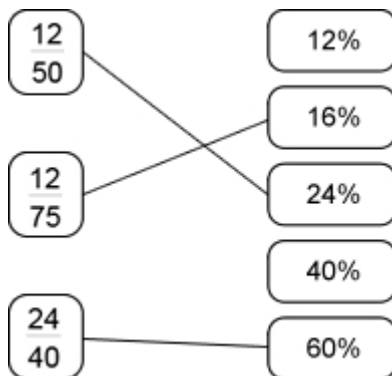


Award **ONE** mark for any two matched correctly.

[2]

Q6.

Award **TWO** mark for the percentages matched as shown:



Award **ONE** mark for any two matched correctly.

[2]

Q7.

Award **TWO** marks for three correct fractions indicated, and no others,

i.e. $\frac{3}{5}$, $\frac{6}{10}$ and $\frac{36}{60}$

Award **ONE** mark for:

- Any two correct with no other fractions indicated.
- Three correct with one other also selected.

[2]