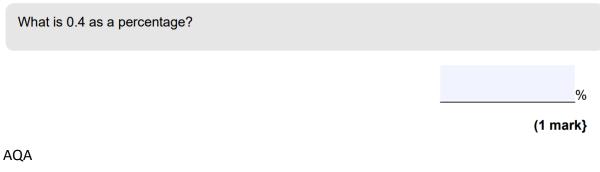**Non-calculator Questions**

NCFE

1.a)

In the 1930s there were 12 500 square miles of wildflower meadow in the UK.

By 2017, only 5% of this remained.

What is 5% as a decimal?

[1 mark]

Your answer:

b)

How many square miles of wildflower meadow remained in the UK in 2017?

[2 marks]

Your answer: **square miles**

City & Guilds

2.

What is $\frac{2}{5}$ as a decimal?

(1 mark)

3.

What is $\frac{2}{5}$ as a decimal?

(tick one box)

A   0.4   ☐

B   0.2   ☐

C   0.25   ☐

D   0.04   ☐

(1 mark)

4.

What is 8% as a decimal?

(1 mark)

5.

What is 0.4 as a percentage?

_____%

(1 mark}

AQA

6.

Circle the decimal with the same value as $\frac{3}{5}$

[1 mark]

0.06   0.35   0.53   0.6

7.

Complete the table to show equivalent fractions, decimals and percentages.

[3 marks]

Fraction	Decimal	Percentage
	0.75	75%
$\frac{7}{10}$	0.7	
$\frac{1}{5}$		20%

Calculator Questions

Edexcel

1.

Daniel has these test results

public services 46% maths $\frac{14}{25}$ English $\frac{13}{20}$ art and design $\frac{6}{10}$

His tutor wants to compare these results.

> List the subjects in order from his best result to his worst result.
> Show why you think this. (3)

2.

Cruz is the editor of a magazine.

The magazine has 40 pages.

The magazine must have

- 20% of the pages for adverts
- $\frac{1}{4}$ of the pages for photos
- the remaining pages for articles.

Work out the number of pages for articles in the magazine.

(4)

<div style="text-align: right;">

pages
</div>

3.

(a) Write $1\frac{3}{4}$ as a percentage.

(1)

%

(b) Write $1\frac{2}{3}$ as a decimal.
Give your answer correct to two decimal places.

(2)

NCFE

4.

The friends go to lunch after they have raced.

Bethany has a voucher giving her 35% off.

Ikrah has a voucher for $\frac{2}{5}$ off.

Who has the better discount?

Show how you decide.

[2 marks]

Your answer:

5.

Write 60% as a decimal.

[1 mark]

Your answer:

6.

53% of the eggs produced in the UK in 2018 were free range.

Write 53% as a fraction.

[1 mark]

Your answer:

Between 2014 and 2017 the number of people sleeping rough increased by 75%

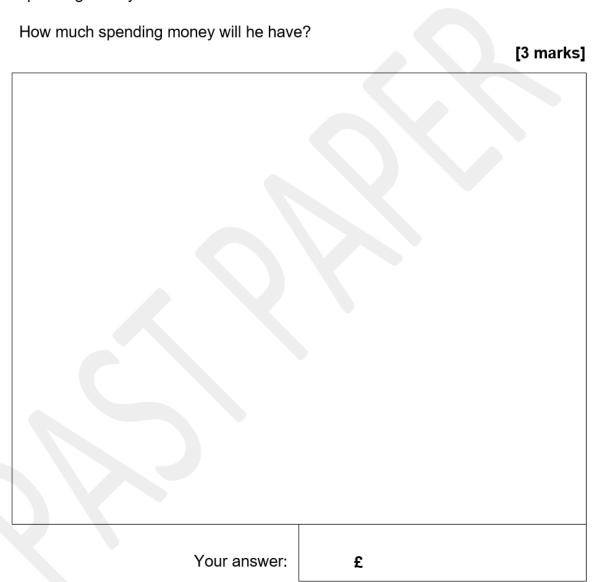Write this percentage as a fraction in its simplest form.

[1 mark]

Your answer:

7.

If Reg uses both round tins, he will need approximately $\frac{5}{4}$ of the cake mix recipe.

Reg says, "That is the same as increasing the recipe amounts by 25%".

Is Reg correct? Show how you decide.

[2 marks]

Your answer:

8.

Simon is going to France for 7 days.

He has £700 saved for this trip.

He plans to spend $\frac{2}{5}$ of it on accommodation, 25% on flights and the rest as spending money.

How much spending money will he have?

[3 marks]

Your answer: £

City & Guilds

9.

What is 0.35 as a fraction? Give your answer in its simplest form.

$$\frac{\boxed{}}{\boxed{}}$$

(1 mark)

Highfield

10.

Put an X on the scale to show $^{14}\!/_{20}$.

0   0.5   1

Show your working out in the box below.   *(2 marks)*

Open Awards

11.

Convert $\frac{5}{8}$ to a percentage. (1 mark)

Show your calculations and/or workings out here:

Write your answer in this box.

Write $\frac{7}{20}$ as a percentage.

[1 mark]

Answer _____ %