

Name: _____

GCSE (1 – 9)

Fractions, Decimals and Percentages

Instructions

- Use **black** ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
– *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

Information

- The marks for each Question are shown in brackets
– *use this as a guide as to how much time to spend on each Question.*

Advice

- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

1 Write 0.29 as a percentage.

$$0.29 \times 100$$

29 %

(Total for Question 1 is 1 mark)

2 Write $\frac{5}{100}$ as a decimal.

$$5 \div 100$$

0.05

(Total for Question 2 is 1 mark)

3 Write 0.3 as a percentage.

$$0.3 \times 100$$

30 %

(Total for Question 3 is 1 mark)

4 Write 18% as a decimal.

$$18 \div 100$$

0.18

(Total for Question 4 is 1 mark)

5 Write 4% as a decimal.

$$4 \div 100$$

0.04

(Total for Question 5 is 1 mark)

6 Write 0.3 as a fraction.

$\frac{3}{10}$

(Total for Question 6 is 1 mark)

7 Write $\frac{2}{5}$ as a decimal.

$$\frac{2}{5} = \frac{4}{10} = 0.4$$

0.4

(Total for Question 7 is 1 mark)

8 Write 0.03 as a fraction.

$$\frac{3}{100}$$

(Total for Question 8 is 1 mark)

9 Write 23% as a fraction.

$$\frac{23}{100}$$

(Total for Question 9 is 1 mark)

10 Write 0.79 as a percentage.

$$0.79 \times 100$$

79%

(Total for Question 10 is 1 mark)

11 Write 17% as a fraction.

$$\frac{17}{100}$$

$$\frac{17}{100}$$

(Total for Question 11 is 1 mark)

12 Write 0.25 as a fraction.

$$\frac{25}{100} \text{ or } \frac{1}{4}$$

$$\frac{1}{4}$$

(Total for Question 12 is 1 mark)

13 Write $\frac{3}{50}$ as a percentage.

$$\frac{3}{50} = \frac{6}{100}$$

6 %

(Total for Question 13 is 1 mark)

14 Write 0.06 as a percentage.

$$0.06 \times 100$$

6 %

(Total for Question 14 is 1 mark)

15 Write 0.11 as a fraction.

$$\frac{11}{100}$$

(Total for Question 15 is 1 mark)

16 Write 0.9 as a percentage.

$$0.9 \times 100$$

90 %

(Total for Question 16 is 1 mark)

17 Write 0.19 as a percentage.

$$0.19 \times 100$$

19 %

(Total for Question 17 is 1 mark)

18 Write 0.025 as a fraction.

$$\frac{25}{1000} \text{ or } \frac{5}{200} \text{ or } \frac{1}{40}$$

$$\frac{25}{1000}$$

any equivalent

(Total for Question 18 is 1 mark)

19 Write $\frac{12}{100}$ as a decimal.

$$12 \div 100$$

0.12

(Total for Question 19 is 1 mark)

20 Write $\frac{7}{10}$ as a decimal.

$$7 \div 10$$

0.7

(Total for Question 20 is 1 mark)

21 Write 0.003 as a fraction.

$$\frac{3}{1000}$$

(Total for Question 21 is 1 mark)

22 Write 0.3 as a percentage.

$$0.3 \times 100$$

30%

(Total for Question 22 is 1 mark)

23 Write $\frac{9}{20}$ as a percentage.

$$\frac{9}{20} = \frac{45}{100}$$

45%

(Total for Question 23 is 1 mark)

24 Write 0.06 as a fraction.

$$\frac{6}{100}$$

(Total for Question 24 is 1 mark)

25 Dean says that 13% is greater than 0.1

Is Dean correct?

Give a reason for your answer.

YES : either $13\% = 0.13$ and $0.13 > 0.1$

or $0.1 = 10\%$ and $13\% > 10\%$

(Total for Question 25 is 1 mark)

26 Tom and Jerry both earn the same monthly salary.

Each month:

Tom saves 35% of his salary.

Jerry spends $\frac{3}{5}$ of his salary and saves the rest of his salary.

Work out who saves the most money each month.

You must show your working.

Jerry saves $\frac{2}{5} = 40\%$

$40\% > 35\%$

Jerry saves more money.

(Total for Question 26 is 2 marks)

27 Write the following numbers in order of size.

Start with the smallest number.

75% $\frac{7}{10}$ 0.72 0.9 $\frac{4}{5}$
0.75 0.7 0.8

$\frac{7}{10}$ 0.72 75% $\frac{4}{5}$ 0.9

(Total for Question 27 is 2 marks)

28 Write the following numbers in order of size.

Start with the smallest number.

0.3 $\frac{1}{3}$ 21% $\frac{1}{4}$ 0.205
30% 33.3% 25% 20.5%

0.205 21% $\frac{1}{4}$ 0.3 $\frac{1}{3}$

(Total for Question 28 is 2 marks)