Fractions, Decimals and percentages

1. a) Write 0.8 as a percentage

80%

b) Write 0.8 as a fraction in its simplest form

$$\frac{80}{100} = \frac{4}{5}$$

(3 marks)

2. a) Write 0.9 as a percentage

90%

b) Write 0.9 as a fraction in its simplest form

$$\frac{90}{100} = \frac{9}{10}$$

(3 marks)

3. a) Write 0.12 as a percentage

12%

b) Write 0.12 as a fraction in its simplest form

$$\frac{12}{100} = \frac{3}{25}$$

(3 marks)

Fractions, Decimals and percentages

4. a) Write 2% as a decimal

0.02

b) Write 2% as a fraction in its simplest form

$$\frac{2}{100} = \frac{1}{50}$$

(3 marks)

5. a) Write 42% as a decimal

0.42

b) Write 42% as a fraction in its simplest form

$$\frac{42}{100} = \frac{21}{50}$$

(3 marks)

6. a) Write 6% as a decimal

0.06

b) Write 6% as a fraction in its simplest form

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

(3 marks)

Fractions, Decimals and percentages

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

$$\frac{40}{100} = 40\%$$

b) Write $\frac{2}{5}$ as a decimal

0.4

(2 marks)

8. a) Write $\frac{1}{8}$ as a percentage

$$\frac{12.5}{100} = 12.5\%$$

b) Write $\frac{1}{8}$ as a decimal

0.125

(2 marks)

9. a) Write $\frac{17}{25}$ as a percentage

$$\frac{68}{100} = 68\%$$

b) Write $\frac{17}{25}$ as a decimal

0.68

(2 marks)

Fractions, Decimals and percentages

10. a) Write 0.425 as a percentage

42.5%

b) Write 0.425 as a fraction in its simplest form

$$\frac{425}{1000} = \frac{17}{40}$$

(3 marks)

11. Complete the table

Fraction	Decimal	Percentage
$\frac{11}{20}$	0.55	55%
$\frac{9}{25}$	0.36	36%
$\frac{17}{20}$	0.85	85%
$\frac{5}{8}$	0.625	62.5%
$\frac{3}{100}$	0.03	3%

(5 marks)

12. Order the following from smallest to biggest

33% 0.31 $\frac{1}{3}$ 0.303

33%, 31%, $33.\dot{3}\%$, 30.3%

0.303, 0.31, 33%, $\frac{1}{3}$

(3 marks)

Fractions, Decimals and percentages

13. Order the following from smallest to biggest

$$9\% \qquad 0.087 \qquad \frac{1}{10} \qquad 0.101$$

$$9\%, \qquad 8.7\%, \qquad 10\%, \qquad 10.1\%$$

$$0.087, \qquad 9\%, \qquad \frac{1}{10}, \qquad 0.101$$

(3 marks)

14. Order the following in descending order

$$124\% \qquad 1.2 \qquad \frac{4}{3} \qquad 1.233$$

$$124\%, \qquad 120\%, \qquad 133.\dot{3}\%, \qquad 123.3\%$$

$$1.2, \qquad 1.233, \qquad 124\%, \qquad \frac{4}{3}$$

(3 marks)

15. Sienna said that 16% is greater than $\frac{1}{6}$

James said that 16% is less than $\frac{1}{6}$

Who is correct?

You must show all your workings.

$$\frac{1}{6} = 16.\dot{6}\%$$

$$16\% < 16.\dot{6}\%$$

James is correct

(3 marks)

Fractions, Decimals and percentages

16. a) Write 7.5% as a decimal

0.075

b) Write 7.5% as a fraction in its simplest form

$$\frac{75}{1000} = \frac{3}{40}$$

(3 marks)

17. Claudia, Daniel and Eric got their Maths results
Claudia got 74%
Daniel got $\frac{3}{4} = \frac{75}{100}$
Eric got $\frac{18}{25} = \frac{72}{100}$
Who got the best result in their maths test?

Daniel=75%, Eric=72%
Daniel got the best result

(3 marks)