

Converting Fractions, Decimals and Percentages

For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name _____

Total marks: **23**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

- 1** (a) Write $\frac{9}{25}$ as a percentage.

.....
(1)

- (b) Write 0.7 as a fraction.

.....
(1)

- (c) Write 4% as a decimal.

.....
(1)

- (d) Write 45% as a fraction in its simplest form.

.....
(1)

(Total for Question 1 is 4 marks)

- 2** Complete the table.
Give fractions in their simplest form.

Fraction	Decimal	Percentage
$\frac{3}{4}$		
	0.2	
		16%

(3)

(Total for Question 2 is 3 marks)

- 3** Write 0.125 as a fraction in its simplest form.

.....
(2)

(Total for Question 3 is 2 marks)

- 4** Hugo says $\frac{3}{10} = 3\%$
Explain why Hugo is wrong.

(1)

(Total for Question 4 is 1 mark)

- 5 Write $\frac{5}{6}$ as a decimal.

.....
(1)

(Total for Question 5 is 1 mark)

- 6 Write these numbers in order of size.
Start with the smallest number.

$\frac{2}{3}$ 0.6 65% $\frac{5}{8}$

.....
(2)

(Total for Question 6 is 2 marks)

- 7 Which is the better score, 17 out of 20 or 21 out of 25?
You must show how you get your answer.

.....
(2)

(Total for Question 7 is 2 marks)

- 8 In a survey, $\frac{7}{20}$ of people chose tea, 0.4 chose coffee and the rest chose hot chocolate.
What percentage of people chose hot chocolate?

.....
(3)

(Total for Question 8 is 3 marks)

- 9 $\frac{3}{5}$ of the students in a school are girls.
40% of the girls wear glasses.
What fraction of all the students are girls who wear glasses?

.....
(2)

(Total for Question 9 is 2 marks)

10 Oskar is reading a book.

On Monday he reads $\frac{1}{5}$ of the pages in the book.

On Tuesday he reads 0.35 of the pages in the book.

He now has 108 pages left to read.

How many pages are there in the book?

.....
(3)

(Total for Question 10 is 3 marks)
