

Conversion

Difficulty: Hard

Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Number
Sub-Topic	Conversion
Paper	Paper 2
Difficulty	Hard
Booklet	Question Paper 1

Time allowed: 27 minutes

Score: /21

Percentage: /100

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

Question 1

Write the recurring decimal $0.\dot{6}3$ as a fraction in its lowest terms.
You must show all your working.

[3]

Question 2

Write the recurring decimal $0.1\dot{7}$ as a fraction.
Show all your working.

[2]

Question 3

(a) Write \$0.70 as a fraction of \$5.60, giving your answer in its lowest terms.

[1]

(b) Write the recurring decimal $0.\dot{1}\dot{8}$ as a fraction in its lowest terms.
[$0.\dot{1}\dot{8}$ means $0.181818\dots$]

[2]

Question 4

$$\frac{3}{5} < p < \frac{2}{3}$$

Which of the following could be a value of p ? [2]

$$\frac{16}{27} \quad 0.67 \quad 60\% \quad (0.8)^2 \quad \sqrt{\frac{4}{9}}$$

Question 5

A tin of soup has the following information on the label.

200 grams of soup contains		
Protein	Carbohydrate	Fat
4 g	8.7 g	5.8 g

(a) What fraction of the soup is Protein? Give your answer in its simplest form. [1]

(b) What percentage of the soup is Carbohydrate? [1]

Question 6

Sima drinks 2.5 litres of water each day.

A full glass holds 125 millilitres of water.

How many full glasses of water does Sima drink each day?

[2]

Question 7

The population of Europe is 580 000 000 people.
The land area of Europe is 5 900 000 squarekilometres.

(a) Write 580 000 000 in standard form. [1]

(b) Calculate the number of people per square kilometre, to the nearest whole number. [2]

(c) Calculate the number of square **metres** per person. [2]

Question 8

The top speed of a car is 54 metres per second.
Change this speed into kilometres per hour.

[2]