



EXAM PAPERS PRACTICE

Conversion

Question Paper

Question 1

Write the recurring decimal $0.2\dot{5}$ as a fraction.
[$0.2\dot{5}$ means $0.2555\dots$]

[2]

Question 2

At the beginning of July, Kim had a mass of 63 kg.
At the end of July, his mass was 61 kg.

[3]

Calculate the percentage loss in Kim's mass.

Question 3

Work out 72 cents as a percentage of 83 cents.

[1]



Question 4

Write

(a) 60 square metres in square centimetres, [1]

(b) 22 metres per second in kilometres per hour. [2]

Question 5

A cruise ship travels at 22 knots.

[1 knot is 1.852 kilometres per hour.] [3]

Convert this speed into metres per second.



Question 6

The maximum speed of a car is 252 km/h.

[2]

Change this speed into metres per second.

Question 7

Lin scored 18 marks in a test and Jon scored 12 marks.

[2]

Calculate Lin's mark as a percentage of Jon's mark.



Question 8

Calculate

$$\frac{5^2}{2^5}$$

(a) giving your answer as a fraction,

[1]

(b) giving your answer as a decimal.

[1]



Question 9

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

[3]

Question 10

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

[2]

Question 11

(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 12

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

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

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

Question 13

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 14

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 15

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 16

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

[2]