Percentages

Question Paper 1

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Topic	Number and Algebra
Sub Topic	Percentages
Booklet	Question Paper 1

Time Allowed: 62 minutes

Score: /51

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	70%	60%	55%	50%	<50%

1 Ella invested $8000 for 3 years at 5% per annum **compound interest**.

Calculate the value of her investment at the end of 3 years.

$ ....

(Total for Question1 is 3 marks)

2 In a sale, normal prices are reduced by 15%.
The normal price of a television was $640

Work out the sale price of the television.

$ ....

(Total for Question 2 is 3 marks)

3 In January 2007 the population of Canada was 32 million.
7 million of these Canadian people spoke French as their first language.

(a) Express 7 million as a percentage of 32 million.
Give your answer correct to 1 decimal place.

.... %

(2)

Between January 2007 and January 2009 the population of Canada increased by 4%.

(b) Increase 32 million by 4%.
Give your answer correct to the nearest million.

.... million

(3)

(Total for Question 3 is 5 marks)

4 A bank pays compound interest of 6% per annum on its savings accounts.
Julia invests $7500 for 3 years.

Calculate the total interest gained after 3 years.

$ ....

(Total for Question 4 is 3 marks)

5 On 9th May, 2009, there were 3440 people in the world with swine flu.
Of these people, 1639 were in the USA.

(a) Express 1639 as a percentage of 3440
Give your answer correct to 1 decimal place.

.... %

(2)

The 3440 people who had swine flu on 9th May was an increase of 37.6% on
the number of people who had swine flu on 8th May.

(b) Calculate the number of people who had swine flu on 8th May.

....

(3)

(Total for Question 5 is 5 marks)

6 The population of India increased by 20% between 1989 and 1999.
The population of India increased by a further 17% between 1999 and 2009.

Calculate the percentage by which the population of India increased between 1989 and 2009.

.... %

(Total for Question 6 is 3 marks)

7 Joseph travels to work each day by train.
The weekly cost of his train journey is £45
Joseph's weekly pay is £625

(a) Work out 45 as a percentage of 625

.... %

(2)

(b) The weekly cost of his train journey increases by 8%.

Increase £45 by 8%.

£ ....

(3)

(c) Joseph's weekly pay increases to £640

Calculate the percentage increase from 625 to 640

.... %

(3)

(d) Joseph decides to cycle to work.
He cycles 18 km to work.
His journey to work takes 1 hour 20 minutes.

Calculate his average speed in kilometres per hour.

.... km/h

(3)

(Total for Question 7 is 11 marks)

8 On Monday, Nalim made a journey.
On Tuesday, she made the same journey.
Her average speed on Tuesday was 25% greater than her average speed on Monday.

Calculate the percentage reduction in the time her journey took on Tuesday compared
with Monday.

.... %

(Total for Question 8 is 3 marks)

9 An airline increases the prices of its flights by 8%.

(a) Before the increase, the price of a flight to Cairo was £475

Work out the price of a flight to Cairo after the increase.

£.......................................

(3)

(b) The increase in price of a flight to Mumbai was £48

Work out the price of a flight to Mumbai after the increase.

£.......................................

(3)

(Total for Question 9 is 6 marks)

10 A shop, *Furniture 4U*, had a sale.

(a) In the sale, normal prices were reduced by 15%.

(i) The normal price of a table was $280

Work out the sale price of the table.

$ ....

(ii) The normal price of a chair was reduced in the sale by $24

Work out the normal price of the chair.

$ ....

(6)

(b) Ruth, Suha and Yasmin went to the sale.
The amounts of money spent by Ruth, Suha and Yasmin were in the ratios 2 : 3 : 7
Ruth and Suha spent a total of $320 in the sale.

Work out the amount of money Yasmin spent in the sale.

$ ....

(3)

(Total for Question 10 is 9 marks)