

Percentage Increase and Decrease

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

Name _____

Total marks: **24**

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

1 Increase 360 by 15%

.....
(2)

(Total for Question 1 is 2 marks)

2 Write down the decimal multiplier for

(a) an increase of 4%

.....
(1)

(b) a decrease of 30%

.....
(1)

(Total for Question 2 is 2 marks)

- 3** The price of a coat is £240
The price is decreased by 5%
Dev works out the new price.
He writes

$$240 \times 0.5 = 120$$

Dev's answer is wrong.

- (a) Explain what Dev has done wrong.

(1)

- (b) Work out the correct price of the coat after the decrease.

£
(1)

(Total for Question 3 is 2 marks)

- 4** An annual rail pass costs £2400
Next year, the cost of the rail pass will increase by 3.5%
Work out the cost of the rail pass next year.

£
(2)

(Total for Question 4 is 2 marks)

- 5 Decrease 85 kg by 12%

..... kg
(2)

(Total for Question 5 is 2 marks)

- 6 A garden centre has 35% off all plants.
A lemon tree usually costs £68
Work out the price of the lemon tree with 35% off.

£
(2)

(Total for Question 6 is 2 marks)

- 7 Jan buys a bike for £320
She sells the bike for 15% less than she paid for it.
How much does she sell the bike for?

£
(2)

(Total for Question 7 is 2 marks)

- 8 Two shops sell the same washing machine.

Shop A	Shop B
Normal price £640	Normal price £600
Sale: 15% off	Sale: $\frac{1}{10}$ off

Which shop sells the washing machine for less?

You must show how you get your answer.

(3)

(Total for Question 8 is 3 marks)

- 9 At the start of 2024, the population of a town was 12 000
During 2024 the population increased by 8%
During 2025 the population increased by 5%

Work out the population at the end of 2025

.....

(3)

(Total for Question 9 is 3 marks)

10 In January, two shops were selling the same model of bike.

In Shop P the price was £420

In Shop Q the price was £390

In March, Shop P increased its price by 10%

In June, Shop P decreased its new price by 20%

In June, Shop Q decreased its price by 5%

In June, in which shop is the bike cheaper?

You must show how you get your answer.

(4)

(Total for Question 10 is 4 marks)
