

Percentage Increase and Decrease

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **24**

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

1 Work out 115% of 60

[2 marks]

Answer _____

2 Circle the number you multiply by to decrease an amount by 15%

[1 mark]

0.15

0.85

1.15

1.5

3 Which calculation increases 60 by 5%?
Circle your answer.

[1 mark]

60×0.05

60×1.5

60×1.05

$60 + 5$

4 Increase £65 by 12%

[2 marks]

Answer £ _____

5 The price of a car is £14 500
The price is reduced by 8%
Work out the new price of the car.

[2 marks]

Answer £ _____

6 A gym membership costs £32 per month.
From January, the monthly cost goes up by 5%
Work out the new monthly cost.

[2 marks]

Answer £ _____

- 7** Leah runs 12 km each week.
Next week, she will increase this distance by 15%
Omar runs 15 km each week.
Next week, he will decrease this distance by 10%

Who will run further next week?
You must show your working.

[4 marks]

Answer _____

- 8** Six members leave a choir.
This decreases the number of members of the choir by 15%

How many members are in the choir now?

[2 marks]

Answer _____

- 9** Last year, Ruby paid £16 a month for her phone and £90 a month for energy.
This year, her phone bill has gone up by 25%
Her energy bill has gone down by 5%
Ruby says,
‘The rise is the bigger percentage, so my total bill has gone up.’

Is Ruby correct?

Tick a box.

Show calculations to support your answer.

[2 marks]

☐ Yes

☐ No

- 10** The price of a jumper is £40
The price is increased by 10%
The new price is then decreased by 10%
Jo says,
‘The price is now £40 again.’

Is Jo correct? Tick a box.

Show working to support your answer.

[2 marks]

☐ Yes

☐ No

- 11** A plumber charges £60 per hour.
A job takes 3 hours and the parts cost £75
VAT of 20% is added to the total cost of labour and parts.
The customer then gets a 5% discount on this amount for paying on the day.
Work out the amount the customer pays.

[4 marks]

Answer £ _____