

Topic Test 1 (20 minutes)

Calculating with percentages - Higher

1 Circle the multiplier that is equivalent to a percentage increase of 15%

[1 mark]

0.015

0.15

1.015

1.15

2 A games console costs £100
The cost is increased by 20%
The new cost is decreased by 20%

Which of the following is true?
Tick your choice.

[1 mark]

The final cost of the console is less than the original cost

The final cost of the console is the same as the original cost

The final cost of the console is more than the original cost

3 A train fare costs £23.55
All train fares are increased by 2.8%

Work out the new fare.

[2 marks]

Answer £ _____

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- 4** A savings account pays 3.6% per annum simple interest.
Heidi puts £400 into the account.

How much will she have in the account after 5 years?

[2 marks]

Answer £ _____

- 5** In one week the mass of a puppy increases from 1.8 kg to 2.25 kg

Work out the percentage increase of the mass.

[2 marks]

Answer _____ %

6 In a sale all items are reduced by 30%
On the final day the **sale prices** are reduced by 20%

6 (a) Work out the **final day** price of a sofa that was priced at £290 before the sale started. **[3 marks]**

Answer £ _____

6 (b) Work out the percentage decrease between the original prices and the final day prices. **[2 marks]**

Answer _____ %

7 After a 12% increase the cost of a new cooker is £190.40

Work out the original price of the cooker.

[3 marks]

Answer £ _____

8 A running club has 270 members.
There are 25% more men than women in the running club.

8 (a) How many men are in the running club?

[2 marks]

Answer _____

8 (b) 40% of the men and 30% of the women also belong to a cycling club.

Work out the percentage of the whole membership that belong to a cycling club.

[2 marks]

Answer _____ %