

Writing one amount as a percentage of another

Grade 3 | Foundation | 18 questions, 47 marks

GCSE Maths topic practice



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Name: _____ **Date:** _____ **Score:** _____ / 47

- 1** Write 7 as a fraction of 20. (1 mark)

Answer _____

- 2** In a class of 30 pupils, 12 walk to school.
Write 12 as a percentage of 30. (2 marks)

Answer _____

- 3** Last year a rail season ticket cost £640.
This year the same season ticket costs £688.
Work out the percentage increase in the cost of the season ticket. (3 marks)

Answer _____

- 4** Imani scored 18 out of 40 in a science test.
Work out her score as a percentage. (2 marks)

Answer _____

- 5** Kane buys a bike for £250.
A year later he sells the bike for £210.
Work out his percentage loss. (3 marks)

Answer _____

6 Ayesha buys a second-hand guitar for £80. She sells it for £92.

Work out her percentage profit.

(2 marks)

Answer _____

7 A trader buys a table for £68.

She sells the table for £85.

Work out her percentage profit.

(3 marks)

Answer _____

8 In 2019 Femi bought a flat for £180 000.

In 2026 he sold the flat for £207 000.

Work out his percentage profit.

(3 marks)

Answer _____

9 A shop buys phone cases for £3.20 each.

The shop sells each phone case for £4.40.

Show that the shop's percentage profit on each phone case is 37.5%.

(3 marks)

Answer _____

10 Lucy buys plants for £90 and compost for £30. She sells all the plants for a total of £150.

Work out her percentage profit.

(3 marks)

Answer _____

- 11** In a quiz, team A scored 36 out of 45 and team B scored 41 out of 50.
Which team scored the higher percentage? You must show your working.

(3 marks)

Answer _____

- 12** There are 32 students in a class.
20 of the students walk to school.
Write the fraction of the students who walk to school. Give your fraction in its simplest form.

(2 marks)

Answer _____

- 13** Write $\frac{3}{20}$ as a percentage.

(1 mark)

Answer _____

- 14** Write 45 minutes as a percentage of 3 hours.

(3 marks)

Answer _____

- 15** Dev has 30 pens.
He gives away 12 of the pens.
Write the fraction of the pens that Dev has left. Give your fraction in its simplest form.

(2 marks)

Answer _____

- 16** Callum buys a house for £150 000. He spends £20 000 on repairs. He then sells the house for £204 000.
Work out his percentage profit.

(4 marks)

Answer _____

- 17** The membership of running club A increased from 1500 to 1725.
The membership of running club B increased from 2400 to 2700.
Cam says, "Club B had the greater percentage increase because its membership went up by more people."
Show that Cam is wrong.

(4 marks)

Answer _____

- 18** Freya has 45 marbles.
She gives 9 marbles to her brother.
She then loses 6 marbles.
Work out the fraction of her marbles that Freya has left. Give your fraction in its simplest form.

(3 marks)

Answer _____

End of questions | Total 47 marks