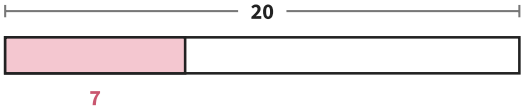
One number as a percentage of another

ANSWERS

1

Write 7 as a percentage of 20.

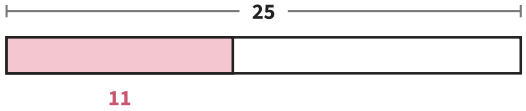


Out of 100: $\frac{7}{20} \times 5 = \frac{35}{100} = 35\%$

Answer 35%

2

Write 11 as a percentage of 25.

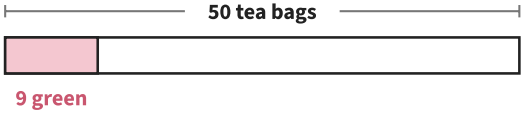


Out of 100: $\frac{11}{25} \times 4 = \frac{44}{100} = 44\%$

Answer 44%

3

A box holds 50 tea bags. 9 of them are green tea. What percentage of the tea bags are green tea?

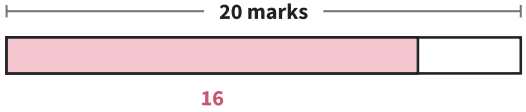


Out of 100: $\frac{9}{50} \times 2 = \frac{18}{100} = 18\%$

Answer 18%

4

Ruby gets 16 out of 20 in a spelling test.
What percentage is this?



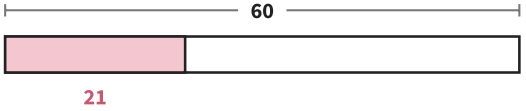
Part / whole: 16/20

Out of 100: 16/20 = 80/100 = 80%

Answer 80%

5

Write 21 as a percentage of 60.



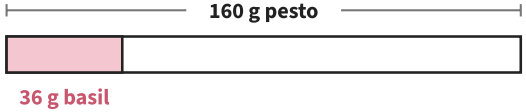
Part ÷ whole: $21 \div 60 = 0.35$

× 100: $0.35 \times 100 = 35\%$

Answer 35%

6

A 160 g jar of pesto contains 36 g of basil. What percentage of the pesto is basil?



Part ÷ whole: $36 \div 160 = 0.225$

× 100: $0.225 \times 100 = 22.5\%$

Answer 22.5%

7

Write 35 cm as a percentage of 2 m.
Tom works out 35 ÷ 2 × 100 = 1750%.
Explain his mistake, then work out the right answer.

he did not change the units first

2 m = 200 cm

35 ÷ 200 × 100

Answer 17.5%

8

Ella scores 38 out of 50 in a history test and 15 out of 20 in a geography test. In which test did she do better?

history: 38/50 = 76/100 = 76%

geography: 15/20 = 75/100 = 75%

Answer history

One number as a percentage of another *further practice*

ANSWERS

9

Write 27 as a percentage of 75.

27 ÷ 75 × 100

Answer 36%

10

Write 11 as a percentage of 30.
Give your answer to 1 decimal place.

11 ÷ 30 × 100 = 36.6667...

Answer 36.7%

11

Write 750 g as a percentage of 3 kg.

3 kg = 3000 g

750 ÷ 3000 × 100

Answer 25%

12

A cinema has 240 seats. 198 of the seats are taken. What percentage of the seats are empty?

240 – 198 = 42 empty

42 ÷ 240 × 100

Answer 17.5%

13

A cake mixture is made from 120 g of flour, 80 g of sugar and 50 g of butter. What percentage of the mixture is sugar?

120 + 80 + 50 = 250 g

80 ÷ 250 × 100

Answer 32%

14

Write 36 minutes as a percentage of 2 hours.

2 hours = 120 minutes

36 ÷ 120 × 100

Answer 30%

15

To pass a test, you need 86% or more. Sam scores 43 out of 50. Does Sam pass? Show how you know.

43/50 = 86/100 = 86%

Answer Yes, 86%

16

In shop A, 12 of the 40 phones are red. In shop B, 18 of the 72 phones are red. Mo says shop B has the bigger percentage of red phones, because 18 is more than 12. Is he right?

A: 12 ÷ 40 × 100 = 30%

B: 18 ÷ 72 × 100 = 25%

Answer No, shop A