

Interleaved: percentages

ANSWERS 

1

A coat costs £80. It is reduced by 15% in a sale. What is the sale price?

Which method? ☒ Percentage of an amount
☐ Percentage change ☐ Reverse percentage
the original is known: $80 \times 0.85 = 68$

Answer £68

2

In a sale, a lamp costs £42 after a 30% reduction. What was its price before the sale?

Which method? ☐ Percentage of an amount
☐ Percentage change ☒ Reverse percentage
the original is unknown: $42 \div 0.7$

Answer £60

3

A sunflower grew from 25 cm to 32 cm in a week. Find the percentage increase.

Which method? ☐ Percentage of an amount
☒ Percentage change ☐ Reverse percentage
 $7 \div 25 \times 100$

Answer 28%

4

A train ticket costs £36. The price goes up by 5%. Find the new price.

Which method? ☒ Percentage of an amount
☐ Percentage change ☐ Reverse percentage
 36×1.05

Answer £37.80

5

After a 20% pay rise, Ola earns £540 a week. How much did she earn a week before the rise?

Which method? ☐ Percentage of an amount
☐ Percentage change ☒ Reverse percentage
 $540 \div 1.2$

Answer £450

6

A car's value fell from £12,500 to £9,750. Find the percentage decrease.

Which method? ☐ Percentage of an amount
☒ Percentage change ☐ Reverse percentage
 $2750 \div 12500 \times 100$

Answer 22%

7

A school has 1,240 students. 35% of them walk to school. How many students walk?

Which method? ☒ Percentage of an amount
☐ Percentage change ☐ Reverse percentage
 1240×0.35

Answer 434

8

A bill of £94.50 includes VAT at 20%. Find the bill before VAT was added.

Which method? ☐ Percentage of an amount
☐ Percentage change ☒ Reverse percentage
 $94.50 \div 1.2$

Answer £78.75

Interleaved: percentages *further practice*

ANSWERS 

9

A café sold 160 cakes on Monday and 184 cakes on Tuesday. Find the percentage increase.

$24 \div 160 \times 100$

Answer 15%

10

A puppy's mass increased by 40% to 9.8 kg. What was its mass before?

$9.8 \div 1.4$

Answer 7 kg

11

A meal costs £48. A tip of 12.5% is added. What is the total cost?

48×1.125

Answer £54

12

A shop buys a board game for £25 and sells it for £34. Find the percentage profit.

$9 \div 25 \times 100$

Answer 36%

13

The population of a town fell by 8% to 27,600. What was the population before the fall?

$27600 \div 0.92$

Answer 30,000

14

The water in a tank went down from 450 litres to 279 litres. Find the percentage decrease.

$171 \div 450 \times 100$

Answer 38%

15

Increase 260 kg by 17.5%.

260×1.175

Answer 305.5 kg

16

A price went up by 25% to £150. Kai says the old price was 75% of £150, which is £112.50. Explain his mistake and find the old price.

*£150 is 125% of the old price, not 100%:
 $150 \div 1.25$*

Answer £120