



Reverse Percentages



REVISE THIS
TOPIC

CHECK YOUR
ANSWERS

- 1 A company's profit this year is £246,400.
This is a 12% **increase** from last year.

Work out the profit **last year**.

[3 marks]

Answer £ _____

- 2 A laptop is on sale for £816 after a 15% **discount** has been applied.

Work out the **original price** of the laptop.

[3 marks]

Answer £ _____

- 3 The value of a car is now £12,240.
This is a 32% **reduction** from its original value.

Work out the **original value** of the car.

[3 marks]

Answer £ _____





- 4 The number of subscribers to a channel is 540,000.
This is 25% **more** than the number of subscribers last year.

Work out how many subscribers the channel had **last year**. [3 marks]

Answer _____

- 5 Emma has 396 followers on social media.
This is 10% **fewer** than Josh.

Work out how many followers **Josh** has on social media. [3 marks]

Answer _____

- 6 On Wednesday, a factory produced 1,054 toys.
This is 15% **less** than on Tuesday.

Work out how many toys the factory produced on **Tuesday**. [3 marks]

Answer _____





7 35% of a number is 42

Work out the number.

[3 marks]



Answer _____

8 11% of a number is 27.5

Work out the number.

[3 marks]

Answer _____

9 30% of a number is 55.5

Work out 140% of the number.

[3 marks]

Answer _____

Turn over ►





10

Mia ran 56.7 km this week.
This is 35% **more** than last week.

Work out how far Mia ran **last week**.

[3 marks]

Answer _____ km

11

On Friday, a store sold 48 video games.
This is 20% **fewer** than Thursday.

Work out how many video games were sold on **Thursday**.

[3 marks]

Answer _____

12

A mobile game had 69850 downloads this week.
This is 27% **more** than the previous week.

Work out how many downloads the game had the **previous week**.

[3 marks]

Answer _____





13

Emma buys a new book with 550 pages.
She reads the book on Saturday and Sunday.

On Sunday she read 286 pages.
This is 30% **more** pages than she read on Saturday.

Work out how many pages of the book Emma will still have left to read. [4 marks]

Answer _____

14

Oberon and Europa are moons of Uranus and Jupiter.
The mass of Europa is 60% **more** than Oberon.

The mass of Europa is 4.8×10^{22} kg

Work out the mass of **Oberon** giving your answer in standard form. [3 marks]

Answer _____ kg





15

Rich adds £36 to his savings account.
This increases the amount of money Rich's savings by 12%

Work out how much money was in Rich's savings account originally. **[2 marks]**

Answer £ _____



16

A jar contains some sweets.
Poppy eats 39 of the sweets in the jar.
This reduces the number of sweets in the jar by 25%

Work out how many sweets are now in the jar. **[2 marks]**

Answer _____



17

A library gets 240 new books.
This increases the number of books in the library by 8%.

Work out how many books were in the library originally. **[2 marks]**

Answer _____





- 18** The pass mark for an exam decreases by 8 marks between 2024 and 2025. These 8 marks represent a 5% decrease in the pass mark.

18 (a) Work out the pass mark for the exam in 2024.

[2 marks]



Answer _____

18 (b) Work out the pass mark for the exam in 2025.

[1 mark]



Answer _____

- 19** A bag contains counters that are either red, blue or green.
48 of the counters are red.
40% of the counters are red.
There are the same number of blue counters as green counters.

Work out the number of blue counters in the bag.

[4 marks]



Answer _____



