



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.

£

(Total for Question 1 is 2 marks)

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

Work out the original price of the laptop.

£

(Total for Question 2 is 2 marks)

- 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.

£

(Total for Question 3 is 2 marks)



- 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.

.....
(Total for Question 4 is 2 marks)

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

Work out how many followers Josh has on social media.

.....
(Total for Question 5 is 2 marks)

- 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.

.....
(Total for Question 6 is 2 marks)



7 35% of a number is 42

Work out the number.

.....
(Total for Question 7 is 2 marks)

8 11% of a number is 27.5

Work out the number.

.....
(Total for Question 8 is 2 marks)

9 30% of a number is 55.5

Work out 140% of the number.

.....
(Total for Question 9 is 2 marks)



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

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

..... km

(Total for Question 10 is 2 marks)

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**.

.....

(Total for Question 11 is 2 marks)

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.

.....

(Total for Question 12 is 2 marks)



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.

.....
 (Total for Question 13 is 4 marks)

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.

..... kg
 (Total for Question 14 is 3 marks)



- 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.

.....
(Total for Question 15 is 2 marks)

- 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.

.....
(Total for Question 16 is 2 marks)

- 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.

.....
(Total for Question 17 is 2 marks)



- 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.



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

.....
(2)

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

.....
(1)

(Total for Question 18 is 3 marks)

- 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.

.....
(Total for Question 19 is 4 marks)



20 George has 3 attempts at the long jump.

His second jump is 10% further than his first jump.
His third jump is 20% further than his second jump.

His best jump was 7.26 m

Work out the mean of his three jumps.

..... m

(Total for Question 20 is 5 marks)

