



SCAN ME

# Reverse Percentages



SCAN ME

← 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]

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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]

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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]

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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]

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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]

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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]

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Answer \_\_\_\_\_





7 35% of a number is 42

Work out the number.

[3 marks]



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Answer \_\_\_\_\_

8 11% of a number is 27.5

Work out the number.

[3 marks]

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Answer \_\_\_\_\_

9 30% of a number is 55.5

Work out 140% of the number.

[3 marks]

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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]

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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]

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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]

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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]

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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  $4.8 \times 10^{22}$  kg

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

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Answer \_\_\_\_\_ kg

Turn over ►





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]**

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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]**

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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]**

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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]**

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Answer \_\_\_\_\_



**18 (b)** Work out the pass mark for the exam in 2025. **[1 mark]**

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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]**

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Answer \_\_\_\_\_



Turn over ►



