



SCAN ME

Percentage Change



SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

1 Work out the percentage increase from 60 to 75 [3 marks]

Answer _____ %

2 Work out the percentage increase from 500 to 560 [3 marks]

Answer _____ %

3 Work out the percentage increase from 200 to 500 [3 marks]

Answer _____ %





4 Work out the percentage decrease from 800 to 440 [3 marks]

Answer _____ %

5 Work out the percentage decrease from 275 to 187 [3 marks]

Answer _____ %

6 Work out the percentage decrease from 63 to 60 [3 marks]

Answer _____ %





7 A puppy weighs 4.5 kg
A week later the puppy weighs 5.4 kg

Work out the percentage increase in the weight of the puppy. **[3 marks]**

Answer _____ %

8 On Friday, the number of visitors to a shop is 120
On Saturday, the number of visitors to the same shop is 105

Work out the percentage decrease in the number of visitors to the shop. **[3 marks]**

Answer _____ %

9 The normal price of a phone is £350
The phone is in a sale for $x\%$ off the normal price.

In the sale, the phone costs £280 **[3 marks]**

Work out the value of x .

$x =$ _____

Turn over ►





10 In 2024 a YouTuber had 60,000 subscribers.
In 2025 the same YouTuber had 168,000 subscribers.

Calculate the percentage increase in subscribers from 2024 to 2025. **[3 marks]**

Answer _____ %

11 The population of a town in 2022, 2023 and 2024 is shown below.

Year	2022	2023	2024
Population	31200	36504	27378

11 (a) Work out the percentage increase in population from 2022 to 2023 **[3 marks]**

Answer _____ %

11 (b) Work out the percentage decrease in population from 2023 to 2024 **[3 marks]**

Answer _____ %





12 Liam buys a concert ticket for £40
He cannot attend so he sells it to his friend for £30

Work out Liam's percentage loss on the concert ticket. **[3 marks]**

Answer _____ %

13 Chloe buys a coat for £18.
She sells it for £26

Work out Chloe's percentage profit. **[3 marks]**

Answer _____ %

14 155 people are in a queue for a ride at a theme park.
20 people get on the ride from the queue.

Work out the percentage decrease in the size of the queue. **[3 marks]**

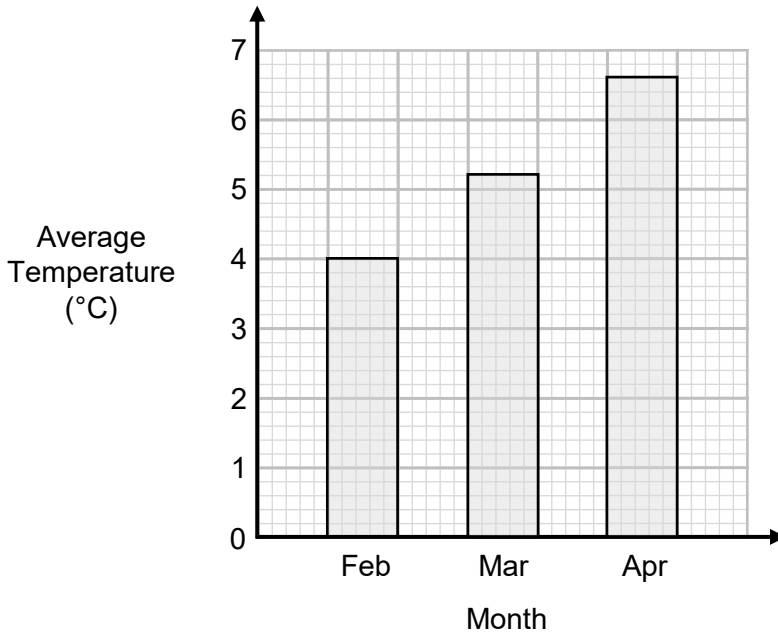
Answer _____ %





15

The bar chart below shows information about the average temperature in the months February, March and April.



Aaron says:

“The percentage increase from March to April is greater than the percentage increase from February to March”

Show that Aaron is incorrect.

[4 marks]





16 Aisha buys a bag of 50 sweets for £8
She sells each sweet individually for 20p

Calculate the percentage profit.

[3 marks]

Answer _____ %

17 Omar runs a football club.
Each training session he pays

£60 to hire a football pitch
£15 for lighting

He charges £4.50 to each player to attend training.

On training session, 26 players attend.
Work out Omar's percentage profit for that training session.

[4 marks]

Answer _____ %

Turn over ►





18 Sofia buys a car for £2,500
She spends £320 improving the car ready to sell it.
She sells the car for £3500

Work out Sofia's percentage profit.

[4 marks]

Answer _____ %

19 Maria buys a house for £240,000
She spends £25,000 improving the house.
She sells the house a year later for £245,000

Work out Maria's percentage loss.

[4 marks]

Answer _____ %





21 200 red counters and 250 green counters are in a jar.

34% of the red counters are removed from the jar.
16% of the green counters are removed from the jar.

Work out the percentage decrease in the total number of counters in the jar.

[5 marks]

Answer _____ %

22 Steve and Jan both throw the javelin.

Jan's throw is 25% **more** than Steve's throw.
Steve's throw is $x\%$ **less** than Jan's throw.

Work out the value of x .

[3 marks]

$x =$ _____

$\frac{\quad}{9}$

