

Negative Numbers

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **23**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

1 Work out

(a) $-3 + 8$

[1 mark]

Answer _____

(b) $-4 - 6$

[1 mark]

Answer _____

(c) $5 - (-2)$

[1 mark]

Answer _____

(d) -6×-4

[1 mark]

Answer _____

(e) $-20 \div 5$

[1 mark]

Answer _____

- 2 Circle the lowest of these temperatures.

[1 mark]

-3.5°C

0.2°C

-6°C

-0.8°C

- 3 The temperature was -11°C and **increases** by 5°C .
Work out the new temperature.

[1 mark]

Answer _____ $^{\circ}\text{C}$

- 4 Circle the answer to -3×5

[1 mark]

15

-15

-8

2

- 5 The table shows the temperature in two cities.

City	Temperature
Moscow	-9°C
Cairo	24°C

Work out the difference in temperature between Moscow and Cairo.

[2 marks]

Answer _____ $^{\circ}\text{C}$

- 6 Write these temperatures in order, starting with the coldest.

3°C -8°C -2°C 0°C -12°C

[1 mark]

Answer _____

7 $a = -3$ $b = 4$

Work out the value of $-ab$

[2 marks]

Answer _____

- 8 Work out the missing number.

$$-7 - \boxed{} = 2$$

[1 mark]

- 9 Write a number in each box to make the calculation correct.

(a) $-4 \times \boxed{} = 28$

[1 mark]

(b) $\boxed{} \div (-3) = 5$

[1 mark]

10 Work out $(-3)^2 \times (-2)$

[2 marks]

Answer _____

11 Luke says,

‘When you add a negative number and a positive number, the answer is always negative.’

Is Luke correct? Tick a box.

Give an example to support your answer.

[1 mark]

☐ Yes

☐ No

12 The temperatures at midnight on four nights were -4°C , 2°C , -7°C , 1°C

Work out the mean temperature.

[2 marks]

Answer _____ $^{\circ}\text{C}$

13 Here is a list of six numbers.

−8 −3 −1 2 5 9

Use two numbers from the list to complete each statement.

Two numbers that add to make −4 are _____ and _____

Two numbers that multiply to make 24 are _____ and _____

[2 marks]