

OCR GCSE Mathematics Calculator 2024 Foundation Paper 3 Revision Worksheet

Question 2

This table shows the weight of each ingredient used to make 5.5 kg of concrete.

Complete this table to show the weight of each ingredient used to make 44 kg of the same concrete.

Ingredient	Weight (kg)	Weight (kg)
Cement	1	
Gravel	3	
Sand	1.5	
Total weight	5.5	44

[2 marks]

Question 3

(a) Use your calculator to work out.

(i) 6^4

(a)(i) [1]

(ii) $\sqrt{529}$

(a)(ii) [1]

(b) Complete this statement to make it correct.

Give your answer as a number in ordinary form.

$\sqrt[3]{\text{.....}} = 12$

[2 marks]

Question 4

A watch costs £207.50

The exchange rate is 1 dollar (\$) = £0.83

Calculate the price of the watch in dollars (\$).

\$ [2 marks]

Question 5

(a) Work out $\frac{2}{3}$ of 103.

Give your answer correct to 1 decimal place.

(a) [3 marks]

(b) Write 400 metres as a fraction of 2 kilometres.

Give your answer in its simplest form.

(b) [3 marks]

Question 6

Finley and Gabi share £14 in the ratio 1 : 3.

(a) Write down the letter of the correct calculation to work out Gabi's share.

A: $\frac{1}{3} \times 14$ B: $14 \times \frac{1}{3}$ C: $14 \times \frac{3}{4}$ D: $\frac{3}{4} \times 14$

(a) [1 mark]

(b) Work out Finley's share.

(b) £ [2 marks]

Question 7

A circle has radius 8 cm.

Work out the area of the circle.

..... cm^2

[2 marks]

Question 8

Kai buys some keyrings.

Each keyring costs £1.

Kai pays with a £20 note and buys the largest number of keyrings possible.

How much change should Kai receive?

[4 marks]

Question 9

When Layla walks to school she always takes 28 minutes.

When Layla cycles to school her speed is double her walking speed.

(a) One day Layla leaves home at 08:20 and cycles to school.

Find the time that Layla arrives at school.

(a) [2 marks]

(b) On another day Layla cycles half-way to school. She walks the rest of the way at her normal walking speed.

Find how many minutes Layla takes to get to school on this day.

(b) minutes [3 marks]

Question 10

(a) Simplify $h \times h \times h \times h$

(a) [1 mark]

(b) Factorise fully: $3fg + 2g$

(b) [2 marks]

Question 11

Choose a word from this list which best describes each statement.

Equation Expression Formula Identity Inequality Term

(a) $x^2 + 2x + 3$

(a) [1 mark]

(b) $(x + 1)(x + 2) = x^2 + 3x + 2$

(b) [1 mark]