

OCR GCSE Mathematics Non-Calculator 2023 Foundation Paper 2 Revision Worksheet

Questions 1–12

1. Work out.

(a) 45×100

(b) $37 \div 100$

(c) $2.36 + 1.79$

(d) $0.82 - 0.36$

2. (a) (i) Write down 50% of 80.

(ii) Use your answer to part (a)(i) to complete this statement. 50% of 80 is the same as ____% of 160

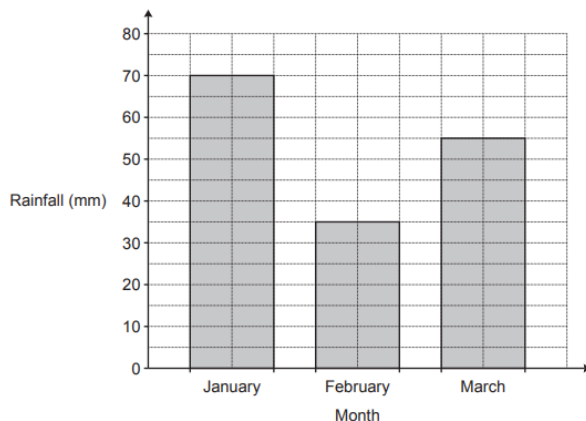
(b) Write 36 as a fraction of 120. Give your answer in its simplest form.

3. (a) Work out.

$\frac{2}{3} + \frac{3}{2}$ Give your answer as a mixed number.

(b) Work out. $1\frac{1}{4} \times 1\frac{1}{8}$

4. The bar chart shows the rainfall, in millimetres (mm), for a city in the first three months of the year.



(a) Write down the amount of rainfall in February.

(b) Write in its simplest form the ratio amount of rainfall in February : amount of rainfall in March.

(c) The total amount of rainfall in January and February was the same as the total amount of rainfall in March and April. Work out the amount of rainfall in April.

5. Complete the three missing values on this multiplication grid.

×	-5	9
-4	20	
		-54

6. Three adults, Amos, Beth and Charlie, are comparing their age in years. Amos is 32. Beth is 48. The mean age of Amos, Beth and Charlie is 50. **Work out the age of Charlie.**

7. Which is smaller, 65% or $\frac{16}{25}$? **Show your working and give a reason for your answer.**

8. Complete each statement.

(a) $24.2 \div 0.5 = \underline{\hspace{2cm}}$

(b) $\underline{\hspace{2cm}} \times 4 = 12.08$

9. (a) Four apples cost £1.80

Find the cost of five of these apples.

(b) By rounding each value to one significant figure, estimate the cost of 8.2kg of bananas at 73p per kg. Give your answer in pounds.

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

Equation Expression Formula Inequality Term

(a) $2b + 2w$

(b) $r^2 = 30$

11. A bag contains only red, green and blue counters.

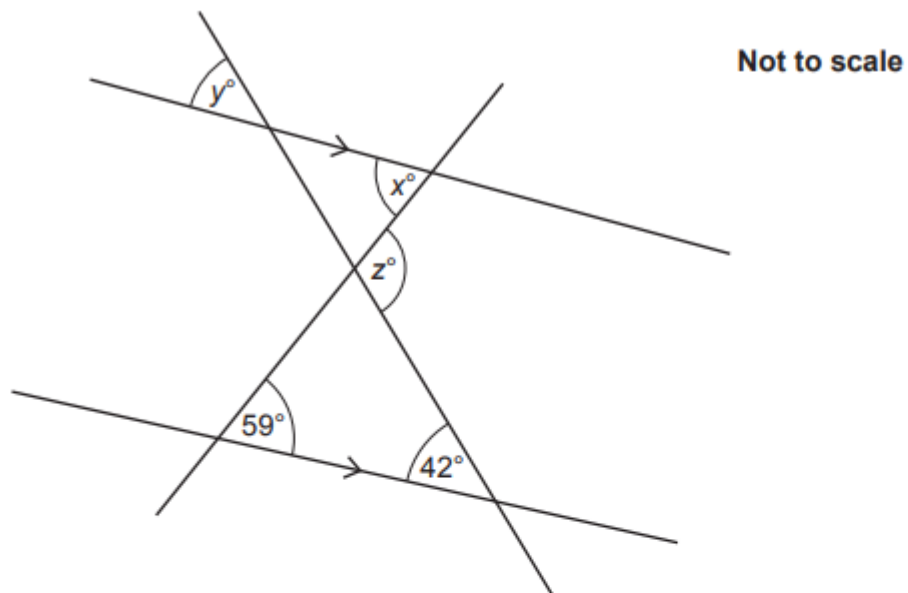
8 of the counters are red. 15 of the counters are green. The rest of the counters are blue.

Sam chooses one counter at random from the bag.

The probability that this is a green counter is $\frac{3}{8}$. **Work out the number of blue counters in the bag.**

The diagram shows two straight lines crossing a pair of parallel lines.

12.



- (a) (i) Find the value of x .
Give a geometrical reason for your answer.

$x = \dots\dots\dots$ because $\dots\dots\dots$
 $\dots\dots\dots$

- (ii) Find the value of y .
Give a geometrical reason for your answer.

$y = \dots\dots\dots$ because $\dots\dots\dots$
 $\dots\dots\dots$

- (b) Find the value of z .