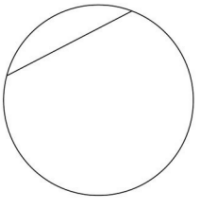


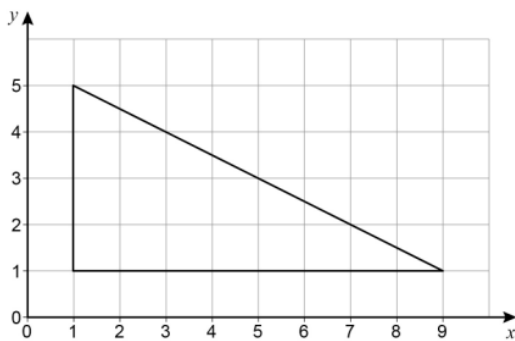
AQA GCSE Mathematics Calculator 2023 Foundation Paper 3 Revision Worksheet

Questions 1–13

1. Work out 10% of 170.
2. Write down the value of the digit 7 in 34,728.
3. a) Write down the name of a triangle with three equal sides.
b) Write down the name for the straight line inside this circle.



4. Write down all the factors of 45.
5. a) The formula is $d = g^2 - 2h$. Work out the value of d when $g = 15$ and $h = 63$.
b) Rearrange $m = n + k$ to make n the subject.
6. Here is a right-angled triangle on a centimetre grid:

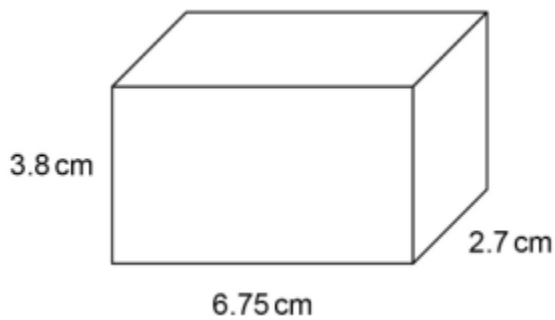


[Image: A right-angled triangle drawn on a 1 cm grid, with vertices at (0,0), (8,0), and (8,5)]

- a) Write down the coordinates of the midpoint of the longest side.
 - b) Work out the area of the triangle.
7. The total cost of broadband for 5 months is £99.
At the same monthly rate, work out the total cost of broadband for **2 years**.

Maths with Melissa

8. Here is a cuboid:



Work out the volume of the cuboid. Give your answer to 1 decimal place.

9. Nicki asked 30 people to name their favourite crisp flavour. Here are the results:

- Salt and Vinegar: 16
- Ready Salted: 7
- Cheese and Onion: 5
- Prawn Cocktail: 2

Nicki drew a pictogram to represent the results.

Favourite crisp flavour

Salt and Vinegar	
Ready Salted	
Cheese and Onion	
Prawn Cocktail	

What two mistakes has Nicki made?

Mistake 1:

Mistake 2:

10. Sanjit buys 1.75 kg of potatoes and 4 kg of leeks. The total cost is £9.

The potatoes cost 84p per kg. **Work out the cost per kg of the leeks.**

Maths with Melissa

11. (a) Simplify fully: $2x + 9y + 1 + 8x - 5y - 7$

b) Circle the expression that is equivalent to $0.5a^2$:

a) a^2 b) $\frac{a}{2}$ c) $\frac{a^2}{2}$ d) $\frac{a^2}{4}$

12. Here are the subjects available in year 12 at a school.

Students choose three subjects. They cannot choose more than one subject from a block.

Block 1	Block 2	Block 3	Block 4
Maths (M)	Geography (G)	English (E)	Spanish (S)
History (H)	Drama (D)	Physics (P)	Biology (B)
French (F)	Chemistry (C)	ICT (I)	Art (A)

Lian decides:

- to study Maths
- not to study Geography, Chemistry, Physics or ICT

By listing, show that there are seven groups of three subjects that Lian could choose.

Subject 1	Subject 2	Subject 3

13. There are 1400 students at a college. A student is chosen at random.

a) The probability that the student is taking a GCSE resit is 0.9

How many of the students are taking a GCSE resit?

b) The probability that the student is studying A-levels is 0.67, and Core Maths is 0.48.

Show that some students are studying both A-levels and Core Maths.