

AQA GCSE Mathematics Non-Calculator 2024 Foundation Paper 1 Revision Worksheet**Question 11**

A window cleaner uses this formula: $C = 2W + 5$

where C = cost, in £, for the customer

W = number of windows to be cleaned.

- (a) How much does it cost for 6 windows to be cleaned?
- (b) The cost for another customer was £24. Show why this cost **must** be incorrect.

Question 12

Two bags, X and Y, each contain coloured discs.

In bag X, $\frac{7}{20}$ of the discs are red.

In bag Y, $\frac{2}{5}$ of the discs are red.

Which bag has the greater proportion of red discs, X or Y? You **must** show your working.

Question 13

- (a) Two friends share £240 in the ratio 1 : 3. Work out the larger share.
- (b) A tennis player wins or loses matches in the ratio win : lose = 5 : 9.

What fraction of the matches do they win?

Question 14

Here is a multiplication table:

×	61	63	65	67
61	3721	3843	3965	4087
63	3843	3969	4095	4221
65	3965	4095	4225	4355
67	4087	4221	4355	4489

Use the table to answer the following questions.

- (a) Work out $3843 \div 63$
- (b) Work out 6.1×6.7
- (c) Work out 63×66

Question 15



These two triangles are congruent (not drawn accurately):
Write down the value of x .

[1 mark]

16. c and d are positive numbers. c is even. d is odd.

Tick a box for each expression:

	Even	Odd	Cannot tell
$c + d$			
$4c$			
$\frac{c}{2}$			

Question 17

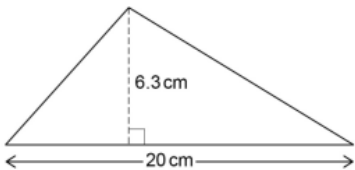
A linear sequence has:

- 1st term = 10
- 1st term + 2nd term = 39

Work out the 5th term.

Question 18

Work out the area of this triangle (not drawn accurately):



Question 19

The vector $\begin{pmatrix} 3 \\ -7 \end{pmatrix}$ translates A to B .

Write down the vector that translates B to A .

Question 20

The attendance for a rugby match is 8400 people to the nearest 100.

- (a) Write down the minimum possible attendance.
- (b) Write down the maximum possible attendance.

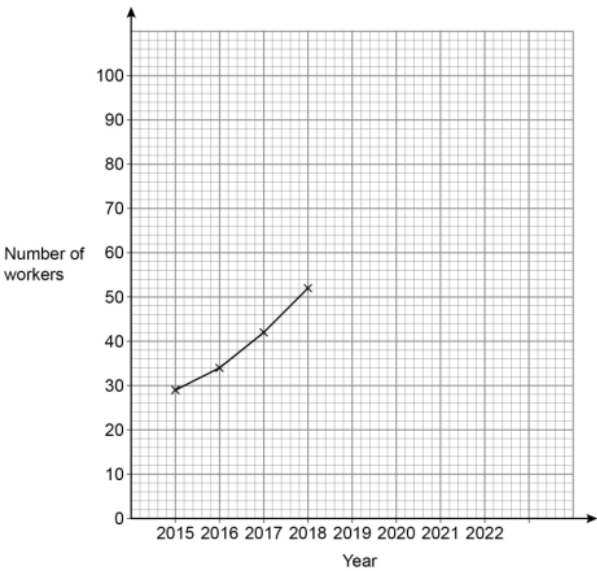
Question 21

The table shows the number of workers at a company in different years:

Year	2015	2016	2017	2018	2019	2020	2021	2022
No.	29	34	42	52	62	70	76	80

A time-series graph is drawn to represent the data. The first four points have been plotted.

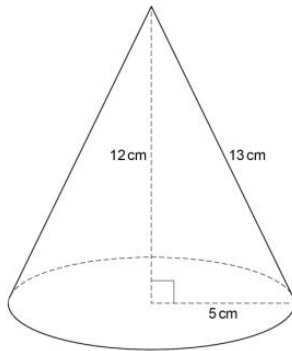
- (a) Complete the graph.



- (b) Estimate the number of workers at the company in 2023.
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Question 22

Here is a cone:



(a)

Curved surface area of a cone = $\pi r l$
 where r is the radius and l is the slant height

Beth tries to work out the curved surface area in terms of π

Curved surface area of the cone = $\pi \times 5 \times 12$
 $= 60\pi \text{ cm}^2$

What mistake has she made?

(b) Adam uses $\pi = 3$ to estimate the area of the base of the cone. Work out his estimate.

(c) Beth uses $\pi = 3.14$ to estimate the area of the base of the cone. Is Beth's estimate more than or less than Adam's estimate?

Tick a box.

More than

☐

Less than

☐

Give a reason for your answer.