

AQA GCSE Mathematics Non- Calculator 2023 Foundation Paper 1 Revision Worksheet

6

(a) Simplify fully $a + a + a + a$ (b) Factorise $5a + 10$ (c) Multiply out $4(10 - x)$

7

Ollie and Rachel run a marathon race.

(a) Ollie starts the race at 9.15 am. He takes $3\frac{3}{4}$ hours to finish the race.**At what time does he finish?**

(b) Rachel has a target time of 4 hours 10 minutes.

She has been running for 186 minutes.

To meet her target, **how many minutes does she have left to finish the race?**

8

Shamira uses a tally chart to record the vehicles passing her school.

Each 5-bar gate (|||||) represents 5 vehicles.

Vehicle	Tally	Frequency
Car		
Bus		
Van		
Lorry		

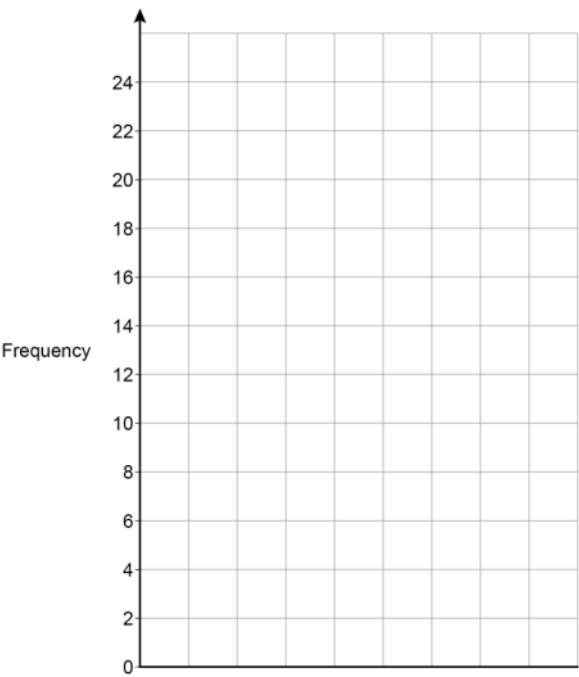
(a) Shamira says,

"The number of cars is more than the total of the other vehicles because cars have four 5-bar gates and the others only have three 5-bar gates."

Is she correct?

Show working to support your answer.

(b) On the grid, draw a bar chart to represent the data in the tally chart.



9

Put the whole numbers 1 to 12 into the boxes to make the calculations correct. Only use each number once.

+ + = 7

+ + = 32

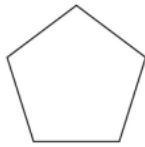
+ + = 15

+ + = 24

10

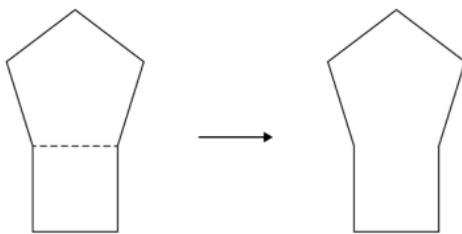
A regular pentagon has perimeter 100 mm. A shape is made by joining a square to the pentagon. Work out the perimeter of the shape.

A **regular** pentagon has perimeter 100 mm



Not drawn
accurately

A shape is made by joining a square to the pentagon.



Work out the perimeter of the shape.

11

Last week, Erik worked for 10 hours. He paid no tax and received £90.

(a) This week, Erik works for 15 hours. He assumes he will be paid at the same rate and pay no tax. **How much does he expect to receive this week?**

(b) In fact, this week, Erik is paid an extra 50p per hour and pays £8.90 tax.

What does this tell you about the amount he receives?

Tick one .

- It is less than he expected
- It is the same as he expected
- It is more than he expected

Show working to support your answer.

12

Complete the list of six numbers so that

- the mode is 9
- the median is 13
- the range is 11

	9			17	
--	---	--	--	----	--

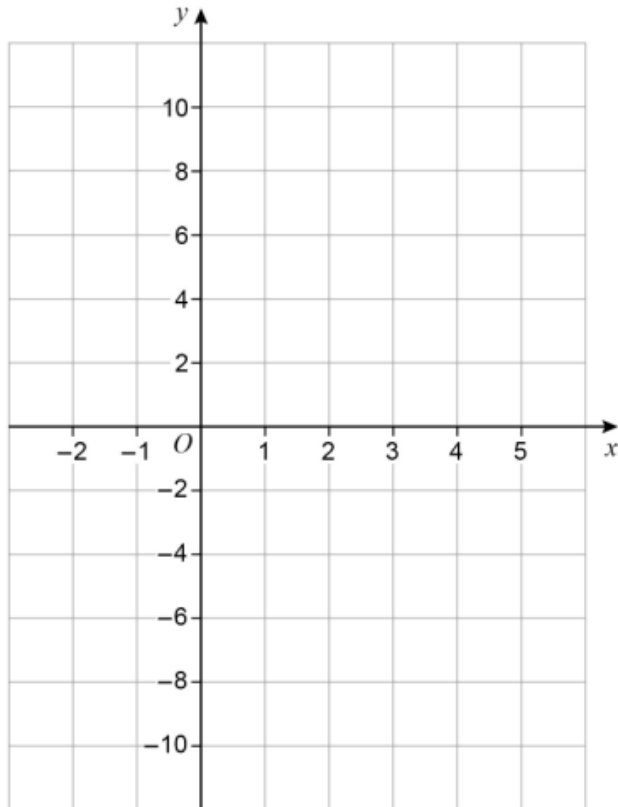
13 A shape has

- an even number of sides
- more sides than a square
- fewer sides than a decagon

Write down the name of one shape this could be.

14

On the grid, draw the graph of $y = 2x - 6$ for values of x from -2 to 5 .

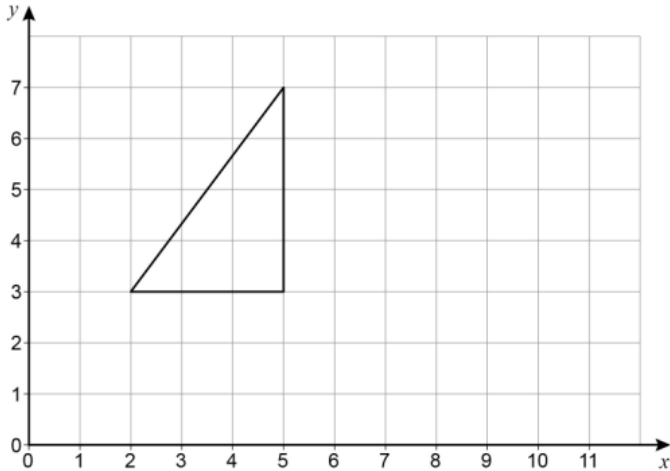


15

Work out $\frac{8}{5} + \frac{16}{13}$ Give your answer as a mixed number.

16

Here is a triangle on a grid.



The triangle is reflected in a vertical line. Two of the vertices of the reflected triangle are at (7, 3) and (7, 7).

(a) What are the coordinates of the other vertex of the reflected triangle?

Answer (____, ____)

(b) What is the equation of the line of reflection?

17

Ali has £80. He gives $\frac{9}{10}$ of his money to Joe. Joe spends $\frac{2}{3}$ of this money. He gives the rest back to Ali.

What fraction of the £80 does Ali have now? Give your answer in its simplest form.