

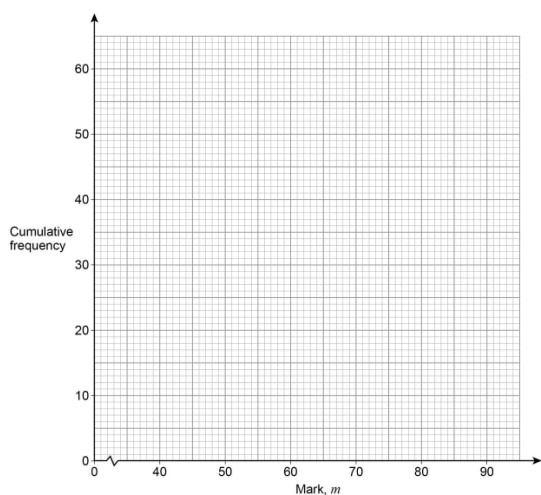
Q1. (2017)

19 Here is some information about the marks of 60 students in a test.

Mark, m	Frequency		
$40 < m \leq 50$	9		
$50 < m \leq 60$	16		
$60 < m \leq 70$	20		
$70 < m \leq 80$	8		
$80 < m \leq 90$	7		

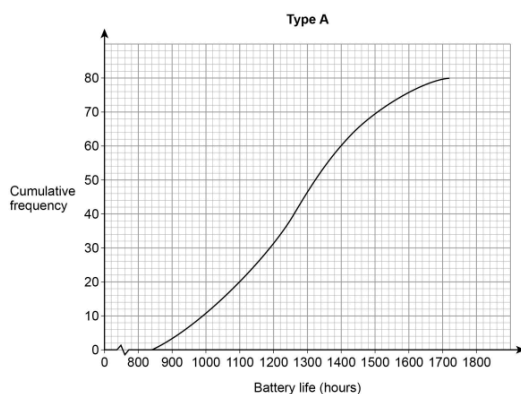
19 (a) On the grid, draw a cumulative frequency graph.

[3 marks]



Q2. (2018)

19 Type A batteries and type B batteries were tested.
The cumulative frequency diagram shows information about the battery life of type A.



(A)

19 (a) Estimate the interquartile range for type A.

[2 marks]

Answer _____ hours

(B)

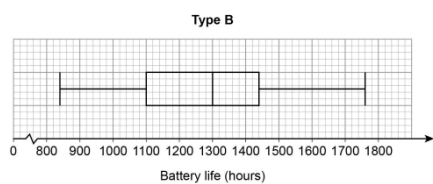
19 (b) Estimate the number of type A batteries that had a battery life of more than 1600 hours.

[1 mark]

Answer _____

(C)

- 19 (c) The box plot shows information about the battery life of type B.



On average, which type had the greater battery life?

Tick a box.

☐

type A

☐

type B

Using data from **both** diagrams, state how you chose your answer.

[2 marks]

Q3. (2019)

- 15 Here is some information about the test marks of 120 students.

Mark, m	$0 < m \leq 10$	$10 < m \leq 20$	$20 < m \leq 30$	$30 < m \leq 40$	$40 < m \leq 50$
Frequency	20	28	40	20	12

(A)

- 15 (a) Complete the cumulative frequency table.

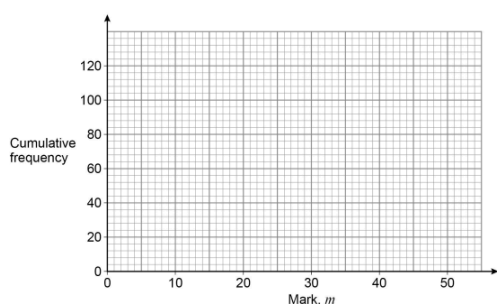
[1 mark]

Mark, m	$m \leq 10$	$m \leq 20$	$m \leq 30$	$m \leq 40$	$m \leq 50$
Cumulative frequency	20	48			

(B)

- 15 (b) Draw a cumulative frequency graph.

[2 marks]



(C)

- 15 (c) Students who scored 15 marks or fewer take another test.

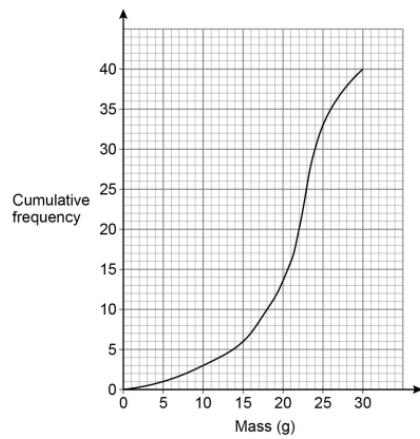
Use your graph to estimate how many students take another test.

[2 marks]

Answer _____

Q4. (2021)

- 16 The cumulative frequency graph represents the masses of 40 necklaces.



- 16 (a) A jeweller buys every necklace with mass **greater than** 21 grams.

Use the graph to estimate how many she buys.

[2 marks]

Answer _____

Q5. (2022)

- 14 15 workers can complete a job in 8 days.
How many **more** workers are needed to complete the job in 6 days?
Assume that all of the workers work at the same rate.

[3 marks]

Q6. (2022)

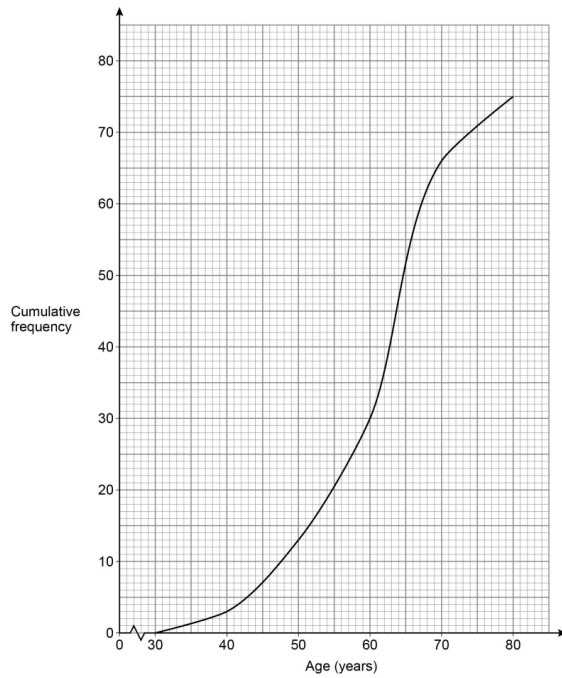
- 15 The cross section of a prism has n sides.
Circle the expression for the number of faces of the prism.

[1 mark]

n $2n$ $3n$ $n + 2$

Q7. (2022)

- 17 75 people attend a clinic.
Their ages are recorded and a cumulative frequency diagram is drawn.



A nurse makes a statement about the **ages** of the people at the clinic.

He says,

"More than twice as many people are in their 60s as in their 50s."

Is he correct?

Tick a box.

Yes

☐

No

☐

Show working to support your answer.

[3 marks]