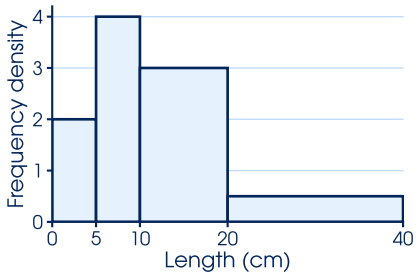
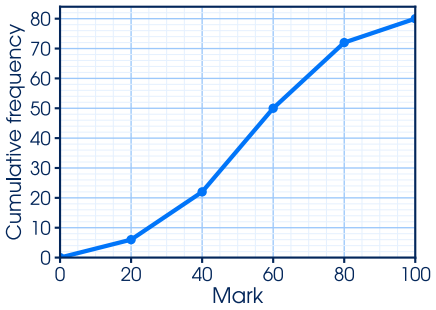
GCSE HIGHER · REVISION MAT 2

Cumulative frequency and histograms

1 Find the frequency of the class $10 < l \leq 20$.

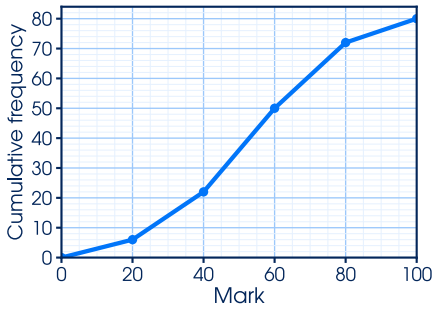


2 Estimate the median mark.



3 Explain how to estimate the median from a cumulative frequency graph.

4 Estimate the interquartile range.

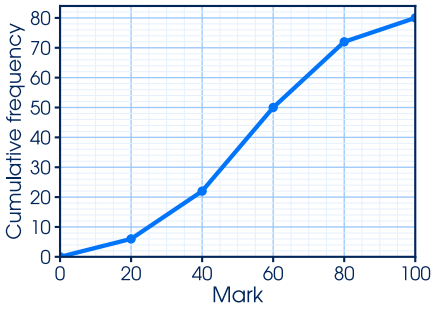


5 A class $40 < m \leq 60$ has frequency 28.

Show that its frequency density is 1.4.

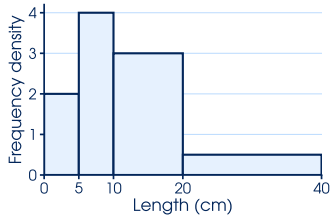
6 The pass mark is 70.

Estimate how many students passed.



7 Explain why the area of a histogram bar represents frequency.

8 Estimate the number of lengths between 8 cm and 30 cm.



Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Cumulative frequency and histograms

1 10×3

30

2 Read at 40

≈ 53

3 **Go across from half the total frequency to the curve, then down to the horizontal axis.**

4 Q1 at 20 ≈ 37.5, Q3 at 60 ≈ 69

≈ 32

5 **$28 \div 20 = 1.4$**

6 Read at 70: about 61

About 19

7 **Frequency density × class width = frequency.**

8 8–10: $2 \times 4 = 8$

10–20: 30; 20–30: 5

≈ 43

Mr&Mrs MATHS