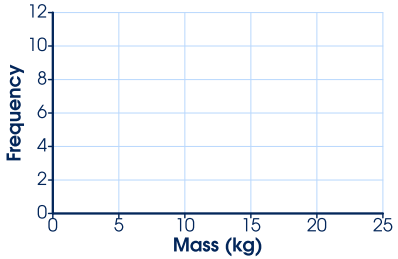
GCSE FOUNDATION · REVISION MAT 2

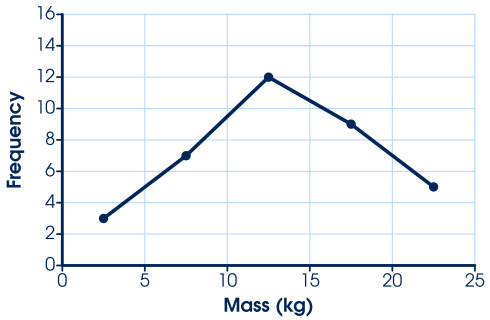
Frequency polygons

1 Draw a frequency polygon for this data.

Group	Frequency
$0 \leq x < 5$	6
$5 \leq x < 10$	11
$10 \leq x < 15$	8
$15 \leq x < 20$	4
$20 \leq x < 25$	3



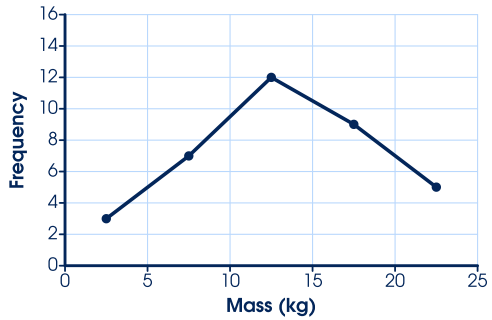
2 The frequency polygon shows some data.



Write down the modal class.

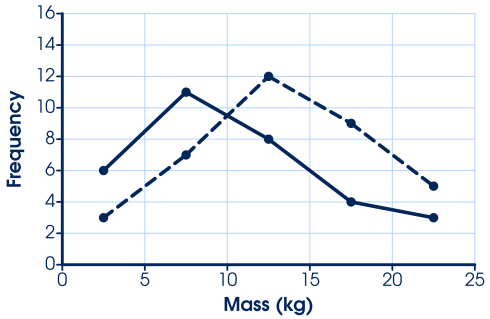
3 Explain why the points of a frequency polygon are plotted at the midpoints of the groups.

4 The frequency polygon shows some data.



Show that the total frequency is 36.

5 The frequency polygons compare two groups, A (solid) and B (dashed).



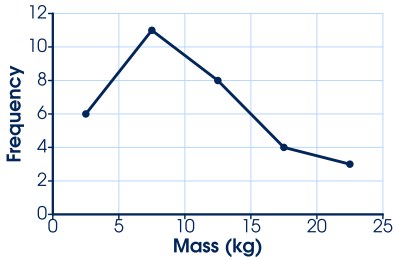
Compare the two groups.

6 The table shows some data.

Group	Frequency
$0 \leq x < 5$	6
$5 \leq x < 10$	11
$10 \leq x < 15$	8
$15 \leq x < 20$	4
$20 \leq x < 25$	3

Work out an estimate for the mean.

1



Plot at the midpoints and join with straight lines.

2 The highest point is at 12.5.

Modal class: **$10 \leq x < 15$**

3 We do not know the exact values in each group.

The midpoint is used to represent all the values in that group.

ANSWERS · REVISION MAT 2

Frequency polygons

4 3 + 7 + 12 + 9 + 5 = **36** ✓

5 Estimated means: A ≈ 10.5, B ≈ 13.3

Group **B** tends to have higher values.

6 Midpoints × frequency:
2.5×6 + 7.5×11 + 12.5×8 + 17.5×4 + 22.5×3

= 335

335 ÷ 32 = **10.47**

Mr&Mrs MATHS