

Design our 6th Class welcome poster

MODEL THIS ON THE BOARD

DESIGNING A 60 CM × 40 CM WELCOME POSTER

- ① **Area** of the poster: $60 \times 40 = 2\,400 \text{ cm}^2$.
- ② Border made of **squares of side 5 cm**: perimeter is $2(60 + 40) = 200 \text{ cm} \rightarrow 40 \text{ squares}$ fit around the edge.
- ③ A **central square** of side 30 cm leaves: $2\,400 - 30 \times 30 = 2\,400 - 900 = 1\,500 \text{ cm}^2$ for the border.
- ④ If the design is **symmetrical** about the vertical centre line, only **half** needs planning — the other half mirrors it.

ANSWER KEY

a) Title block: (e.g. 40×8), ,

b) Symmetry pattern: , ,

c) Bar chart: , ,

d) Photo / illustration: , ,

e) Whitespace: , ,

f) TOTAL: —, , 100%

Q1: 4 units

Q2: 84 m^2 Q3: 25.2 m Q4: 34.71 m^2

EXTENSION SHEET · STRETCH ANSWERS

S1: 24.09 m^2 S2: $(8, -4) \rightarrow \text{Q4}$ S3: 30.69 m^2 S4: $(-6, 9) \rightarrow \text{Q2}$ S5: $(-6, 4) \rightarrow \text{Q2}$