

TITLE BOX COVERAGE ON THE GRID

- 1 The welcome poster is a 10 by 10 grid, so the whole page is 100 squares.
- 2 The title box is 6 squares by 5 squares, so it covers $6 \times 5 = 30$ squares.
- 3 30 out of 100 squares is **30%** of the page.

WARM-UP

Plan the layout of your A3 welcome poster. List each element, work out its area, and check that the total comes to 100% of the page.

	Shape / size	Area (cm ²)	% of poster
a. Title block			
b. Symmetry pattern			
c. Bar chart			
d. Photo / illustration			
e. Whitespace			
f. TOTAL			

PRACTICE

- 1 For next year's welcome poster the title box is **6** squares wide and **5** squares tall on the **10** by **10** classroom grid. How many squares does it cover? _____
- 2 The title on the welcome poster covers **20** squares of the **100**-square page. What percentage of the page does the title cover? _____
- 3 Each corner decoration on the welcome poster is a square turned around the centre. What order of rotational symmetry does a square have? _____
- 4 The same corner shape is drawn once in each of the four corners of the poster, each turned a quarter turn. What order of rotational symmetry does that shape show? _____

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- | | |
|---|---|
| a. A square has rotational symmetry of order 4
<input type="text"/> | c. Regular pentagons tessellate around a border without gaps <input type="text"/> |
| b. A title box covering 30 of 100 squares covers 30% of the page <input type="text"/> | d. A rectangle has rotational symmetry of order 4. <input type="text"/> |