

Perimeter of rectangles and regular shapes

WHAT THIS LESSON TEACHES

The perimeter is the whole distance around the outside of a flat shape. Add the length of every side. For a rectangle the two long sides match and the two short sides match, and a regular shape has all its sides equal so you can multiply one side by the number of sides.

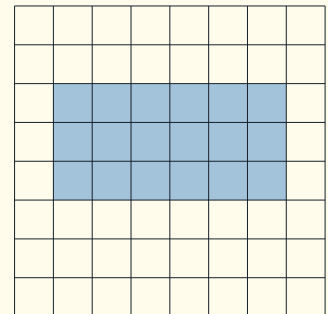
→ A 7 cm by 4 cm rectangle: $7 + 4 + 7 + 4 = 22$ cm

→ A regular pentagon of side 5 cm: $5 \times 5 = 25$ cm

MODEL THIS ON THE BOARD

PERIMETER BY PAIRING EQUAL SIDES

- ① The shaded rectangle is 6 cm long and 3 cm wide.
- ② Add one long side and one short side: $6 + 3 = 9$ cm.
- ③ Double that pair because there are two of each: $9 \times 2 = 18$ cm.



DISCUSSION STARTER

REFLECT

For rectangles, did you add all four sides or double the length-plus-width? Which felt clearer?

ANSWER KEY

a) 58 cm

b) 80 cm

c) 102 cm

Q1: 12 cm

Q2: 20 cm

Q3: 35 cm

Q4: 36 cm

EXTENSION SHEET · STRETCH ANSWERS

S1: 38 m

S2: 44 cm

S3: 38 m

S4: 48 m

S5: 15 cm

Investigation: Fence the biggest garden — open-ended; scan pupils' working for valid solution paths rather than a single answer.