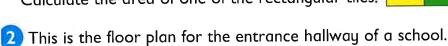


Investigating area and

- Choose and use appropriate strategies to solve problems
- Know and use the formula for the area of a rectangle to calculate the area of right-angled triangles given the lengths of the two perpendicular sides
- Mr Hoffman buys 12 identical tiles at the DIY store.

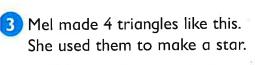
He fits them round a square bathroom mirror which has sides of 70 cm.

Calculate the area of one of the rectangular tiles.

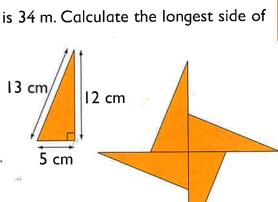


a Each rectangular area is 12 m². Find the area of the whole floor plan.

b The perimeter of the floor plan is 34 m. Calculate the longest side of each triangle.



- What is the area of the star?
- **b** What is its perimeter?



16 cm

70 cm-

4 Jean took 3 equilateral triangles and cut them in half like this.

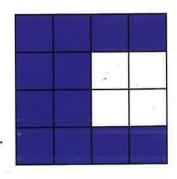
She used the 6 triangles to make a star.

- **a** What is the area of the star?
- **b** What is its perimeter?

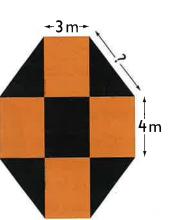
Puzzle time

This shape has an area of 12 cm² and a perimeter of 20 cm.

- a On RCM 54, investigate different shapes having a perimeter of 20 cm.
- **b** Find the area of each shape.
- c Can you make a shape where P = 20 cm and $A < 9 \text{ cm}^2$? Explain.







80 cm

