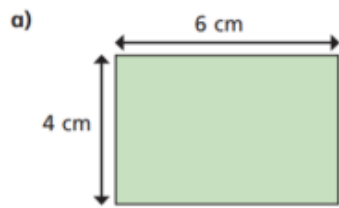




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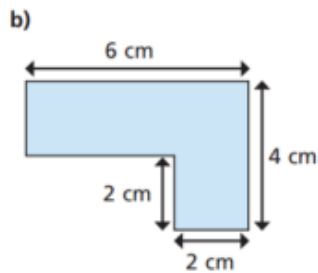
MPI: Calculating the area and perimeter of composite shapes.

Work out the areas and perimeters of the shapes.



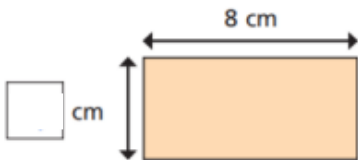
perimeter =  cm

area =  cm<sup>2</sup>



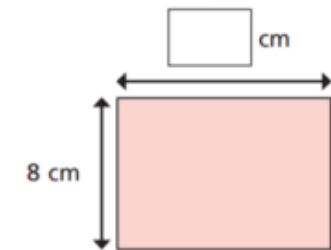
perimeter =  cm

area =  cm<sup>2</sup>



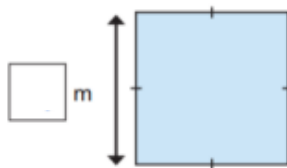
area = 32 cm<sup>2</sup>

perimeter =  cm



area =  cm<sup>2</sup>

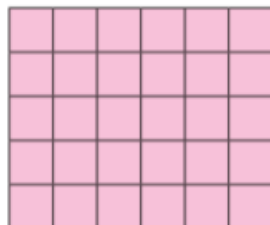
perimeter = 40 cm



area =  m<sup>2</sup>

perimeter = 36 m

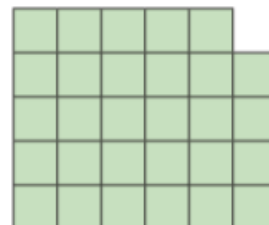
Shape A



area =  cm<sup>2</sup>

perimeter =  cm

Shape B



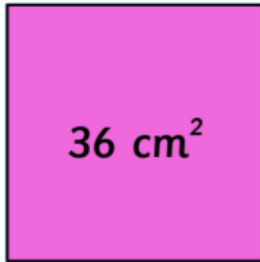
area =  cm<sup>2</sup>

perimeter =  cm

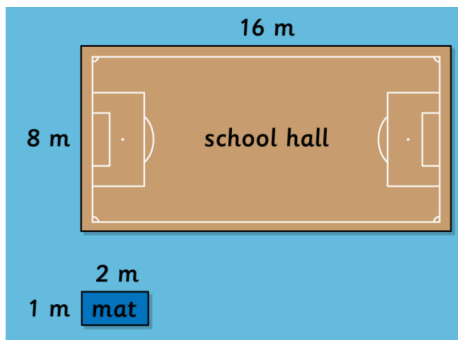
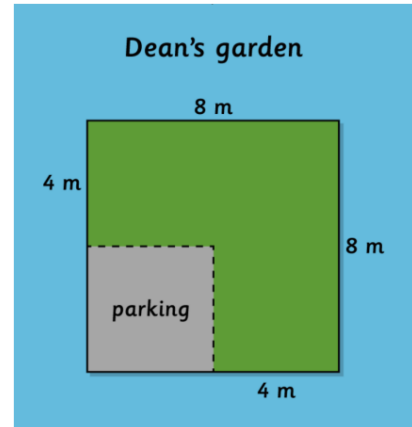
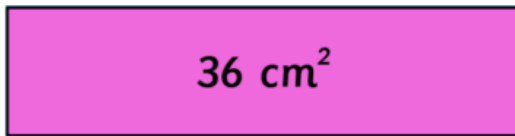


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Dean has a square garden with a perimeter of 32 metres. He decides to use a square piece of the garden for a parking space. The perimeter of the garden stays the same, but its area is  $16 \text{ m}^2$  smaller.



The square and rectangle each have an area of 36 square centimetres ( $\text{cm}^2$ ). The length of the rectangle is twice the length of the square. What is the perimeter of the rectangle?



The school hall is used for PE lessons. How many mats laid next to each other will fill the hall floor?

Use the following clues to calculate the perimeter of the rectangle:

- The area is a multiple of 6.
- The area is between  $80 \text{ cm}^2$  and  $100 \text{ cm}^2$ .
- Its shortest side is 8 cm.
- The length and width are whole numbers of centimetres.



perimeter = ?