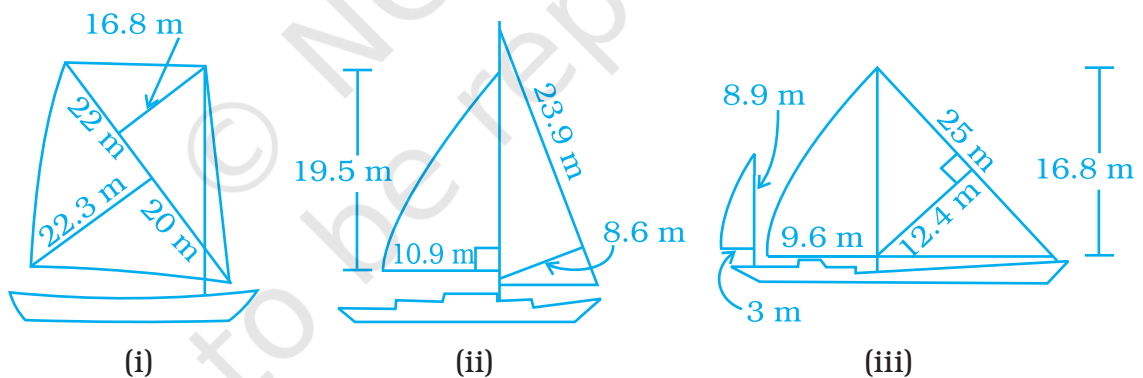


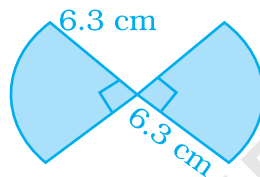
**Solve the following:**

- 62.** The area of a rectangular field is  $48 \text{ m}^2$  and one of its sides is  $6 \text{ m}$ . How long will a lady take to cross the field diagonally at the rate of  $20 \text{ m/minute}$ ?
- 63.** The circumference of the front wheel of a cart is  $3 \text{ m}$  long and that of the back wheel is  $4 \text{ m}$  long. What is the distance travelled by the cart, when the front wheel makes five more revolutions than the rear wheel?
- 64.** Four horses are tethered with equal ropes at 4 corners of a square field of side  $70 \text{ metres}$  so that they just can reach one another. Find the area left ungrazed by the horses.
- 65.** The walls and ceiling of a room are to be plastered. The length, breadth and height of the room are  $4.5 \text{ m}$ ,  $3 \text{ m}$ , and  $350 \text{ cm}$  respectively. Find the cost of plastering at the rate of  $\text{Rs } 8 \text{ per m}^2$ .
- 66.** Most of the sailboats have two sails, the jib and the mainsail. Assume that the sails are triangles. Find the total area of each sail of the sail boats to the nearest tenth.

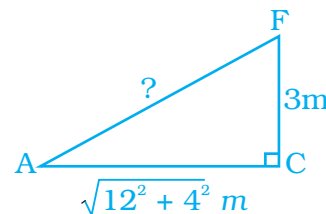
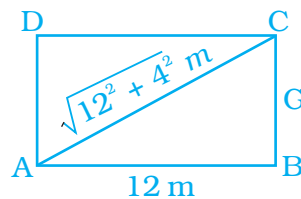
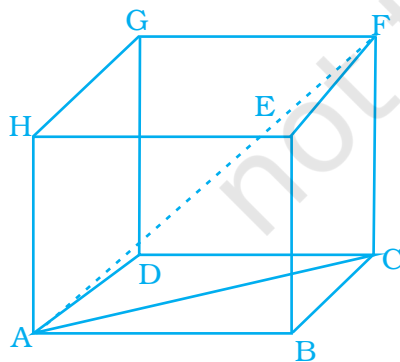


- 67.** The area of a trapezium with equal non-parallel sides is  $168 \text{ m}^2$ . If the lengths of the parallel sides are  $36 \text{ m}$  and  $20 \text{ m}$ , find the length of the non-parallel sides.
- 68.** Mukesh walks around a circular track of radius  $14 \text{ m}$  with a speed of  $4 \text{ km/hr}$ . If he takes  $20$  rounds of the track, for how long does he walk?

69. The areas of two circles are in the ratio 49:64. Find the ratio of their circumferences.
70. There is a circular pond and a footpath runs along its boundary. A person walks around it, exactly once keeping close to the edge. If his step is 66 cm long and he takes exactly 400 steps to go around the pond, find the diameter of the pond.
71. A running track has 2 semicircular ends of radius 63 m and two straight lengths. The perimeter of the track is 1000 m. Find each straight length.
72. Find the perimeter of the given figure.

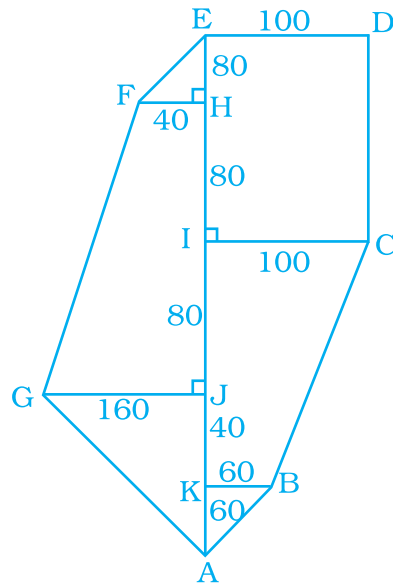


73. A bicycle wheel makes 500 revolutions in moving 1 km. Find the diameter of the wheel.
74. A boy is cycling such that the wheels of the cycle are making 140 revolutions per hour. If the diameter of the wheel is 60 cm, calculate the speed in km/h with which the boy is cycling.
75. Find the length of the largest pole that can be placed in a room of dimensions 12 m × 4 m × 3 m.

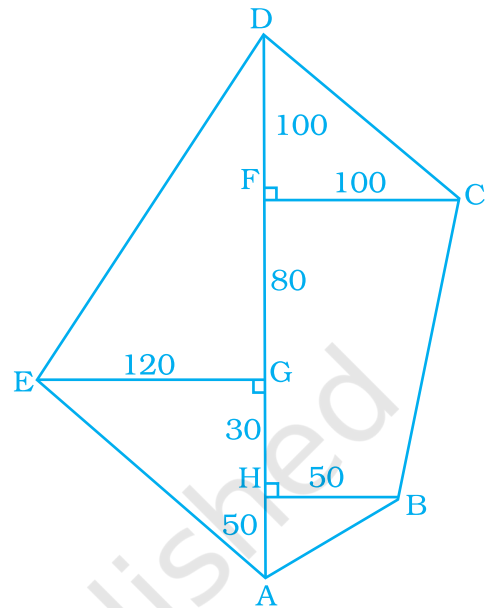


Find the area of the following fields. All dimensions are in metres.

76.

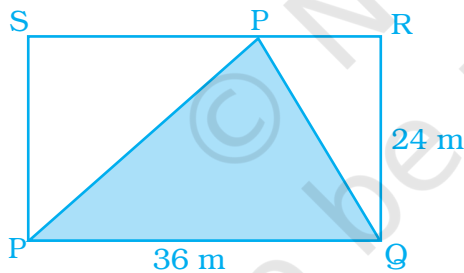


77.

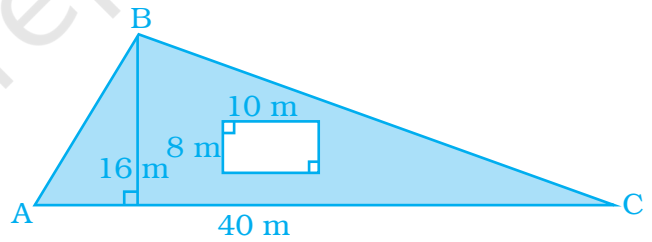


Find the area of the shaded portion in the following figures.

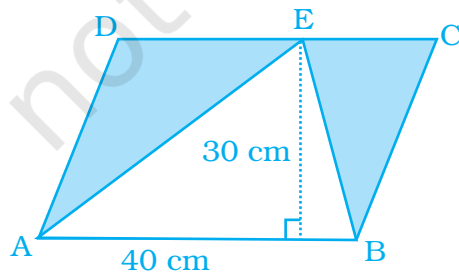
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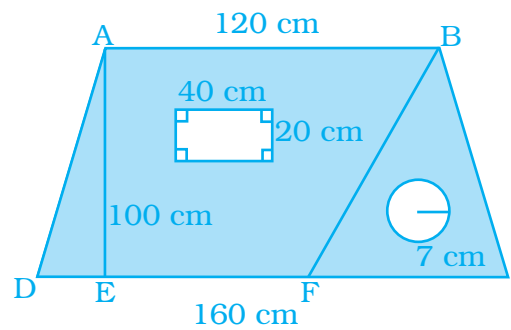
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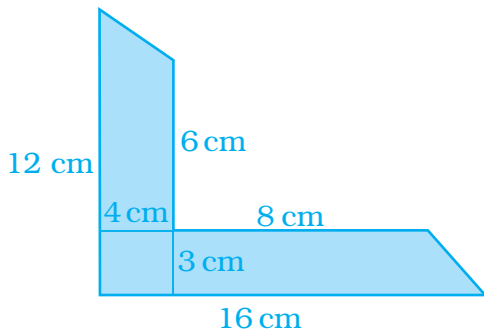
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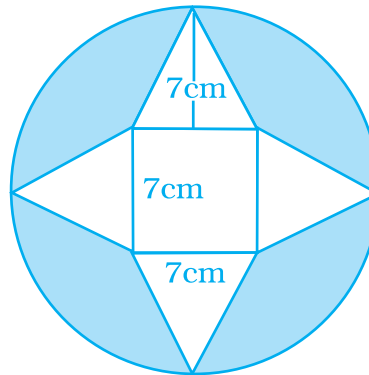
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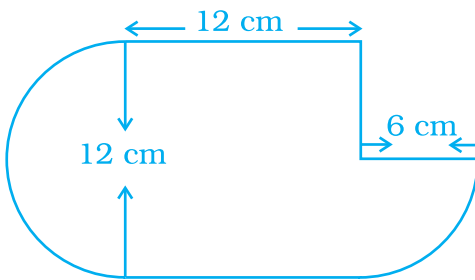
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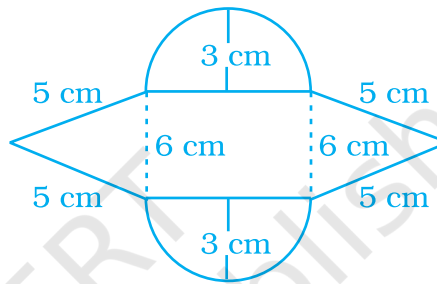
83.



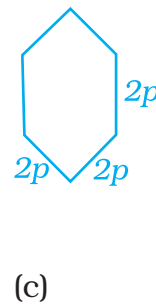
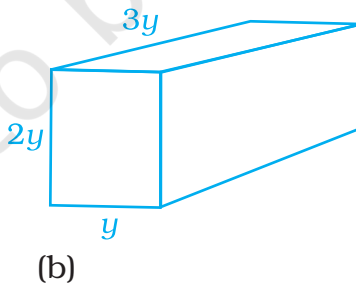
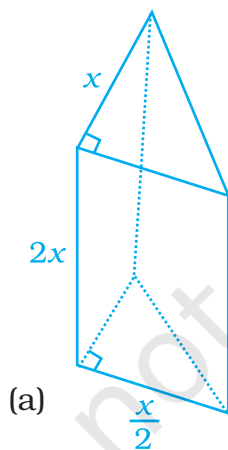
84.



85.



86. Find the volume of each of the given figure if volume = base area  $\times$  height.



87. A cube of side 5 cm is cut into as many 1 cm cubes as possible. What is the ratio of the surface area of the original cube to that of the sum of the surface areas of the smaller cubes?