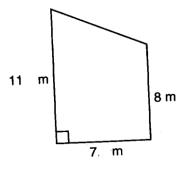
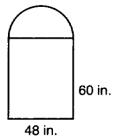
Find the exact perimeter and exact area.

1.



3.

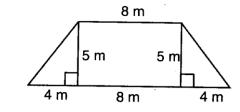


P=168+247 in A=2880+2887 in2

5.

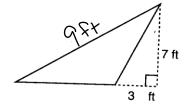


2.

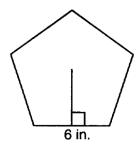


$$P = 24 + 2\sqrt{41} \text{ m}$$
 $A = 60 \text{ m}^2$

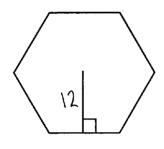
4.



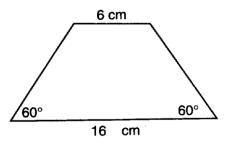
6.



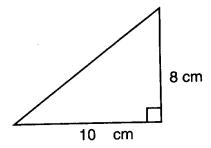
7.



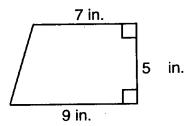
8.



9.



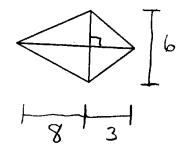
11.



10.

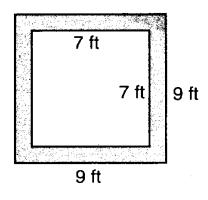


12.

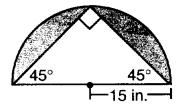


Find the perimeter and area of the shaded region.

13.



15.

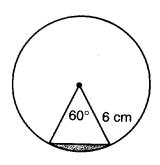


$$P = 15\pi + 30\sqrt{2} \text{ in}$$

$$A = \frac{225}{2}\pi - 225 \text{ in}^2$$

$$= 112.5\pi - 225 \text{ in}^3$$

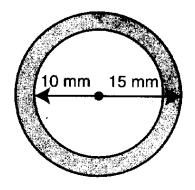
17.



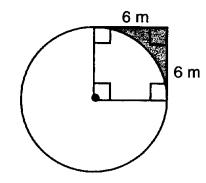
$$P = 6 + 2\pi cm$$

 $A = 6\pi - 9\sqrt{3} cm^2$

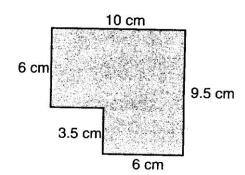
14.



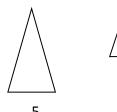
16.



18.



19. Find the ratio of the sides, perimeter and area of the given similar figures.



Sides: $\frac{5}{3}$ Perimetes: $\frac{5}{3}$

Arens: 25

20. You are comparing the two similar rugs shown below. The price of the small rug is \$84. Assuming the cost remain constant, what is the price of the larger rug?



4 feet



10 feet

\$525

21. Regular hexagon ABCDEF has a side length of 8 millimeters and an area of $96\sqrt{3}$ square millimeters. Regular hexagon JKLMNO has a perimeter of 72 millimeters. Find its area.

21653 mm2