

# Homework

p.533: 3, 12, 13, 15, 17

**3** Find the areas of equilateral triangles with the following apothems.

**a** 6

**b** 4

**c** 3

**d**  $2\sqrt{3}$

**12** Find the area of

**a** An equilateral triangle whose side is 9

**b** A square whose apothem is  $7\frac{1}{2}$

**c** A regular hexagon whose side is 7

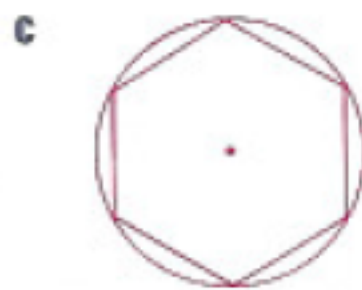
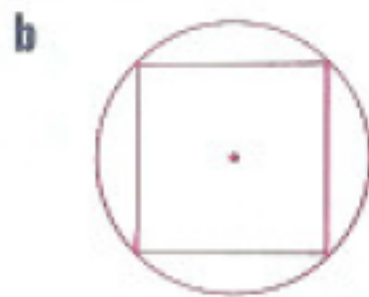
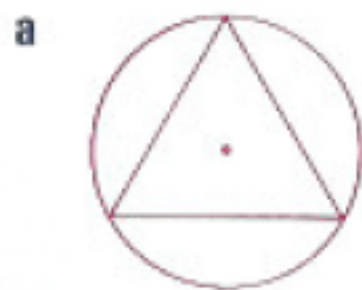
**13** Find the length of one side and of the apothem of

**a** A square whose area is 121

**b** An equilateral triangle whose area is  $36\sqrt{3}$  sq m

**c** A regular hexagon whose perimeter is 24 cm

**15** A circle of radius 12 is circumscribed about each regular polygon below. Find the area of each polygon.



**17** Find the area of the shaded region in each polygon. (Assume regular polygons.)

