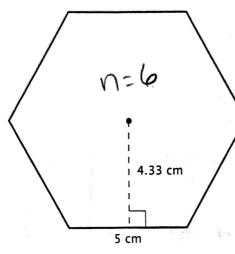
Calculate the area





b)

The area of the regular polygon is 66.56 cm².

$$A = \underbrace{S.Q.M}_{2}$$

$$66.56 = \underbrace{S(6.4)(10)}_{2}$$

$$66.56 = \underbrace{S(6.4)(10)}_{2}$$

Answer:
$$\frac{66.56}{3.5} = 3$$

Area: =
$$\frac{S.Q.N}{2} = \frac{5 \times 4.33 \times 6}{2} = \frac{64.95 \text{ cm}^2}{2}$$

2.08 = S

Find the length of the apothem for a regular pentagon with 4 cm sides

and an area of 27.5 cm².
$$A = S \Omega \cdot V$$

$$A = \frac{5.a.n}{2}$$

27.5 = $\frac{4(a)5}{2}$

10 27.5 = 10 (a)

$$\frac{1}{10}$$

A regular polygon with 5 cm sides and an apothem of 6.04 cm has an area of 120.8 cm². Which regular polygon is it?

$$A = \underbrace{S.Q.N}_{2}$$

$$20.8 = 5(6.04) n$$

$$\frac{120.8}{15.1} = r$$

Complete the following table.

Number Measure of Perimeter of the Area of the Measure of the Name of the of sides one side (cm) apothem (cm) polygon (cm) polygon (cm²) regular polygon (n.as)/2 n(S) Pentagon 6 4.1 30 61.5 72 392.4 Octagon 10.9 56 8 8.3 232.4 11 4 6.8 149.6 Hendecagon

