

Q 6a - Radius of cylinder is 8cm and height is 15cm. Find its volume.

Sol:- Radius of cylinder = r = 8cm
 Height of cylinder = h = 15cm
 Volume of cylinder = V = ?

$$V = \pi r^2 h$$

$$= \frac{22}{7} \times (8)^2 \times (15)$$

$$= \frac{22}{7} \times 64 \times 15$$

$$= \frac{22}{7} \times 960$$

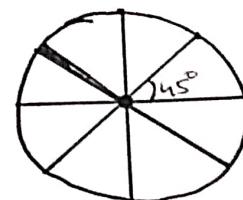
$$\text{Volume} = 3017.142 \text{ cm}^3$$

6b - Al Aqsa Mosque in Jerusalem has a dome of rock in regular octagonal shape. What will be the angle of each side?

Sol:- As regular octagon is a geometrical figure having eight sides and eight angles in an enclosed position. In a regular octagon every side has an angle of 45° .

$$45^\circ \times 8 \text{ sides} = 360^\circ \text{ Octagon is}$$

Hence, each angle of regular Octagon is 45° .



6c - Maximum length and depth of Dal Lake in Srinagar is 4.6 miles and minimum width is 2.2 miles. Find surface area of lake?

Sol:- Length of Dal Lake = 4.6 miles

Width of Dal Lake = 2.2 miles

Area of Lake = ?

Area of Lake = length. width

$$= 4.6 \times 2.2$$

$$= 10.12 \text{ miles}$$

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7c] A tablet contains 30mg of medication. How many tablets will be needed to provide Ms. Smith with 240mg medication?

Sol: One tablet contains medication = 30mg
How many tablets contain medication = 240mg

$$\frac{30\text{ mg}}{30} = 1 \text{ tablet}$$
$$\frac{240\text{ mg}}{30} = \underline{\underline{8}}$$

Ms. Smith needs 8 tablets to provide 240mg.