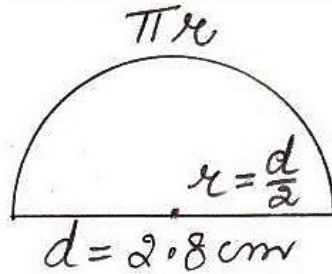


5 a



distance travelled by ant

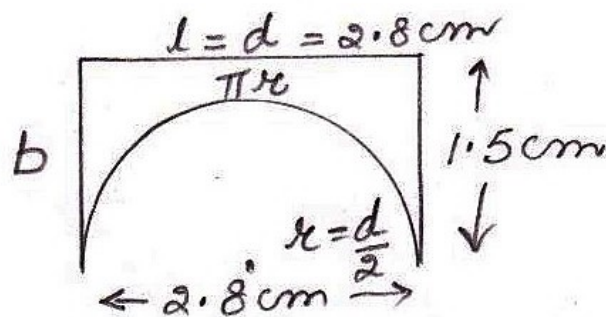
$$= \text{diameter} + \text{length of arc}$$

$$= d + \pi r$$

$$= 2.8 + \frac{22}{7} \times \frac{2.8}{2}$$

$$= 2.8 + 4.4$$

$$= 7.2 \text{ cm}$$



distance travelled by ant

$$= l + 2b + \pi r$$

$$= 2.8 + 2 \times 1.5 + \frac{22}{7} \times \frac{2.8}{2}$$

$$= 8.4 + 4.4 + 3$$

$$= 15.8 \text{ cm}$$