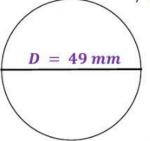
CIRCUMFERENCE AND LENGTH OF ARC

Complete the following by filling in the values.

1. Find the circumference of a circle of diameter 49 mm. [use $\pi = \frac{22}{7}$]

Solution:

Using
$$C = \pi D$$



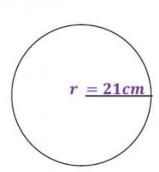
2. Calculate the circumference of a circle given a radius of 21 cm.

Solution

Using
$$C = 2\pi r$$

$$C = \times \times$$

$$C = \underline{\qquad} \times \underline{\qquad} \times \underline{\qquad} = \underline{\qquad} cm$$

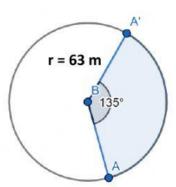


3. Calculate the arc length of the sector shown.

Solution: Using
$$l=2\pi r \frac{\theta}{360^\circ}$$

$$l = \underline{} \times \underline{} \times$$

$$l = \underline{\qquad} \times \underline{\qquad} \times \underline{\qquad} \times \frac{3}{8} = \underline{\qquad}$$



4. Calculate the arc length of the sector shown. [angle = 240°]

Solution: Using $l=2\pi r \frac{\theta}{360^\circ}$

$$l = \underline{} \times \underline{} \times$$

$$l = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \frac{2}{3} = \underline{\hspace{1cm}}$$

