

18/9/2020  
FRIDAY

# MATHEMATICS

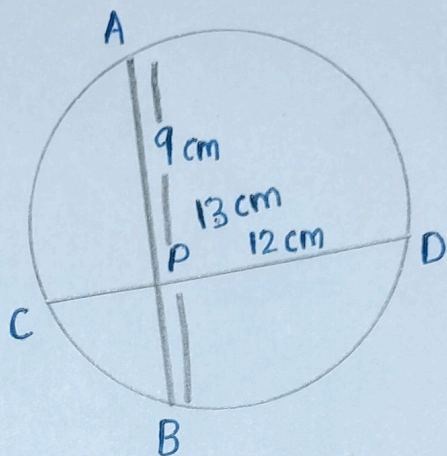
STD - X  
class - 32

## Assignment

1) The chords AB and CD intersect at a point P. If PA = 9 cm, PD = 12 cm, AB = 13 cm, Find the lengths of PB, PC and CD.

Ans)

$$\left. \begin{array}{l} PA = 9 \text{ cm} \\ PD = 12 \text{ cm} \\ AB = 13 \text{ cm} \end{array} \right\} \text{(given)}$$



$$\begin{aligned} \therefore PB &= 13 - 9 \\ &= \underline{\underline{4 \text{ cm}}} \end{aligned}$$

$$PA \times PB = PC \times PD$$

$$9 \times 4 = PC \times 12$$

$$PC \times 12 = 36$$

$$PC = \frac{36}{12} = \underline{\underline{3 \text{ cm}}}$$

$$\therefore PB = \underline{\underline{4 \text{ cm}}}$$

$$PC = \underline{\underline{3 \text{ cm}}}$$

$$CD = 12 + 3 = \underline{\underline{15 \text{ cm}}}$$