# WORKSHEET

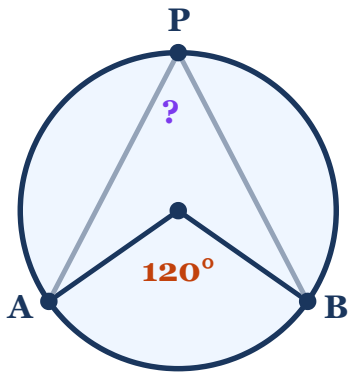
Name: ..... Class: .....

Date: .....

MARK ____ / 15

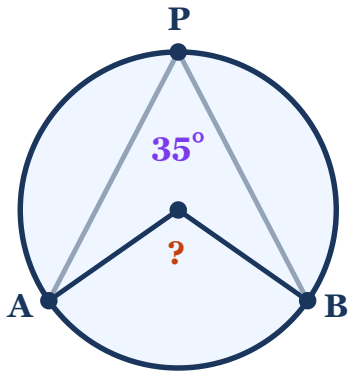
*Answer all questions. Show all your working — marks are awarded for method as well as the final answer.*

**1** Arc subtends 120° at the centre. Angle at the circumference? *(centre/circ)* (2)



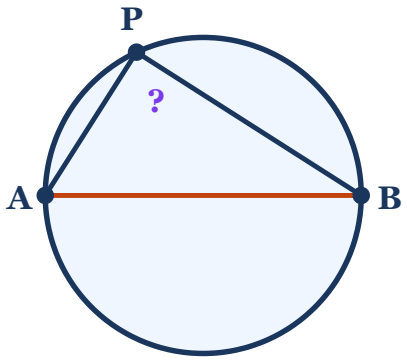

O is the centre

**2** Angle at the circumference is 35°. Angle at the centre (same arc)? *(centre/circ)* (2)



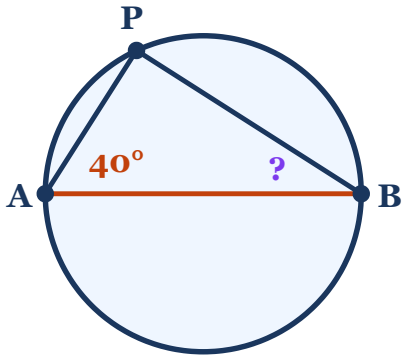

O is the centre

**3** AB is a diameter, P on the circle. What is $A\hat{P}B$? *(semicircle)* (1)



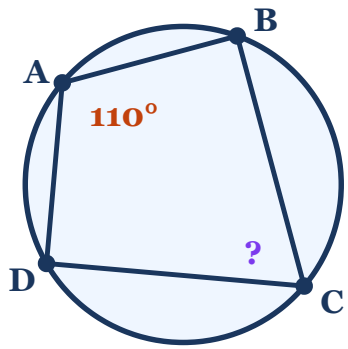

AB is a diameter

**4** In a semicircle, $P\hat{A}B = 40°$. Find $A\hat{B}P$. *(semicircle)* (2)



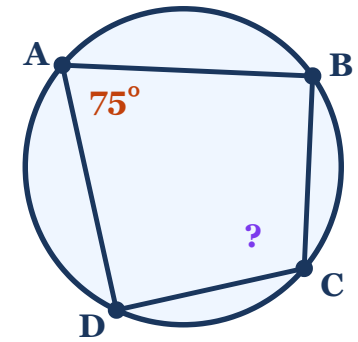

AB is a diameter

**5** Cyclic quad angle is 110°. Opposite angle? *(cyclic quad)* **(1)**



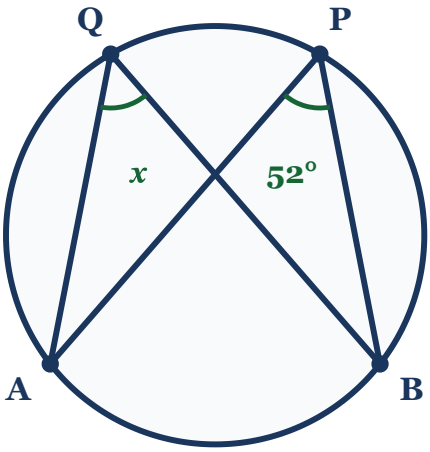

ABCD is a cyclic quadrilateral

**6** Cyclic quad angle is 75°. Opposite angle? *(cyclic quad)* **(1)**

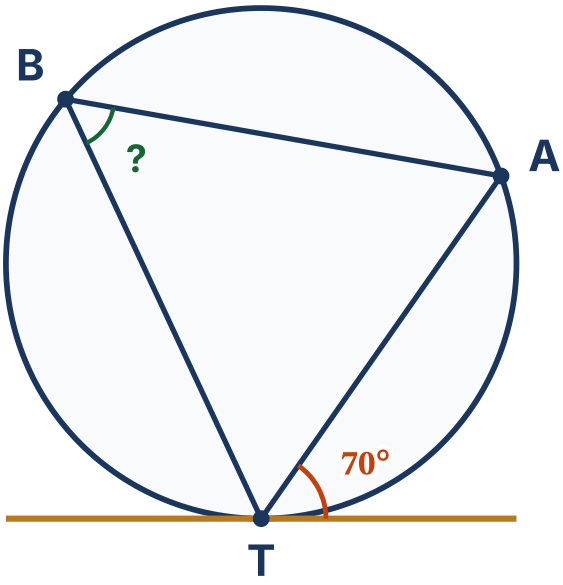



ABCD is a cyclic quadrilateral

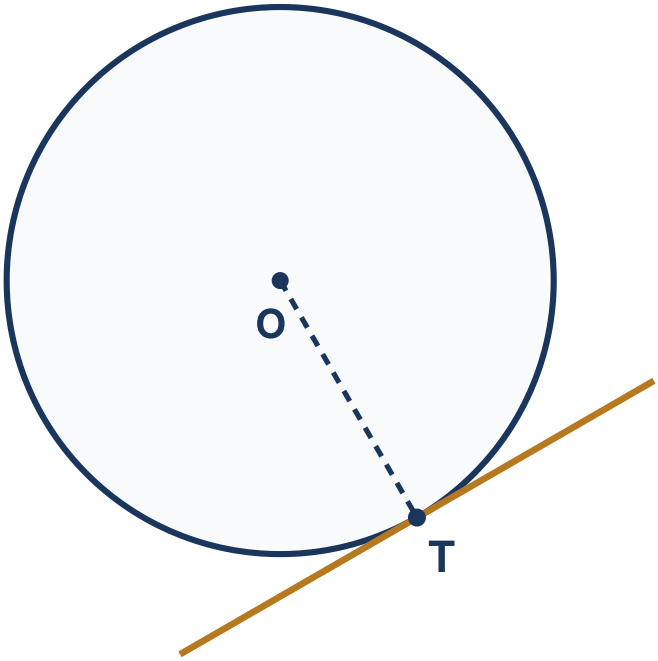
**7** Two angles stand on the same arc; one is $52°$. The other? *(same segment)* (1)



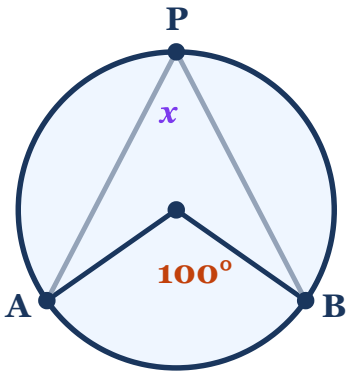

**8** Tangent–chord angle is $70°$. Angle in the alternate segment? *(tan–chord)* (2)



**9** A tangent meets a radius at the point of contact. What is the angle? *(tan–radius)* (1)




**10** Angle at centre $= 2x$ and equals $100°$. Find $x$, the angle at the circumference. *(solve)* (2)




O is the centre

**TOTAL: 15 marks**

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