

4. sum of terms of ratio =  $5+3+7$   
 $= 15$

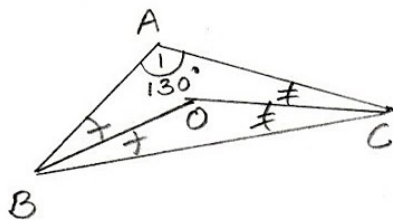
$\therefore$  first angle =  $\frac{5}{15} \times 180 = 60^\circ$

second angle =  $\frac{3}{15} \times 180 = 36^\circ$

third angle =  $\frac{7}{15} \times 180 = 84^\circ$

acute angled  $\triangle$  (A)

5.  $\angle BOC = 90^\circ + \frac{\angle A}{2}$   
 $= 90 + \frac{130}{2}$   
 $= 90 + 65$   
 $= 155^\circ$  (D)



6. POQ is a line

$\therefore 40 + 4x + 3x = 180^\circ$  (sum of angles on a st. line)

$\Rightarrow 7x = 180^\circ - 40^\circ$

$\Rightarrow x = \frac{140}{7} = 20$

$\Rightarrow x = 20^\circ$  (A)