

Counting integers starting from 3

$$\begin{matrix} 3 & \frac{+}{6} & \frac{+}{6} & \frac{+}{6} \\ & 6 & 6 & 6 \end{matrix} = 216 \text{ cases}$$

Counting integers starting from 4

Case-I: If 0, 2 or 3 on 2<sup>nd</sup> place

$$\text{I.e., } \begin{matrix} 4 & \frac{+}{3} & \frac{+}{6} & \frac{+}{6} \\ & 3 & 6 & 6 \end{matrix} = 108 \text{ cases}$$

Case II: If 4 on 2<sup>nd</sup> place

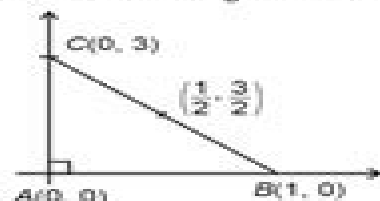
$$\text{I.e., } \begin{matrix} 4 & 4 & \frac{+}{6} & \frac{+}{6} \\ & & 6 & 6 \end{matrix} = 36 \text{ cases}$$

$$\therefore \text{Total } 5 + 24 + 180 + 216 + 108 + 36 = 569 \text{ numbers}$$

8. Let  $ABC$  be the triangle with  $AB = 1$ ,  $AC = 3$  and  $\angle BAC = \frac{\pi}{2}$ . If a circle of radius  $r > 0$  touches the sides  $AB$ ,  $AC$  and also touches internally the circumcircle of the triangle  $ABC$ , then the value of  $r$  is \_\_\_\_\_.

Answer (0.84)

Sol. Let  $A$  be the origin  $B$  on  $x$ -axis,  $C$  on  $y$ -axis as shown below



$\therefore$  Equation of circumcircle is

$$\left(x - \frac{1}{2}\right)^2 + \left(y - \frac{3}{2}\right)^2 = \left(\frac{1}{2}\right)^2 + \left(\frac{3}{2}\right)^2 = \frac{5}{2} \quad \dots(1)$$

Required circle touches  $AB$  and  $AC$ , have radius  $r$

$$\therefore \text{Equation be } (x - r)^2 + (y - r)^2 = r^2 \quad \dots(2)$$

If circle in equation (2) touches circumcircle internally, we have

$$d_{C_1C_2} = |r_1 - r_2|$$

$$\Rightarrow \left(\frac{1}{2} - r\right)^2 + \left(\frac{3}{2} - r\right)^2 = \left(\left|\sqrt{\frac{5}{2}} - r\right|\right)^2$$

$$\Rightarrow \frac{1}{4} + r^2 - r + \frac{9}{4} + r^2 - 3r = \left(\sqrt{\frac{5}{2}} - r\right)^2 \text{ or } \left(r - \sqrt{\frac{5}{2}}\right)^2$$

$$\Rightarrow 2r^2 - 4r + \frac{5}{2} = \frac{5}{2} + r^2 - \sqrt{10}r$$

$$\Rightarrow r = 0 \text{ or } 4 - \sqrt{10}$$

$$\Rightarrow r = 0.837$$

$$= 0.84 \text{ (on rounding off)}$$

# Maths Paper 1 972013

**RJ Shavelson**



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