

5.

Shape	Probability
Circle	0.2
Triangle	$x$
Square	$x$
Rectangle	0.1

$$0.2 + x + x + 0.1 = 1$$

$$0.3 + 2x = 1$$

$$2x = 1 - 0.3$$

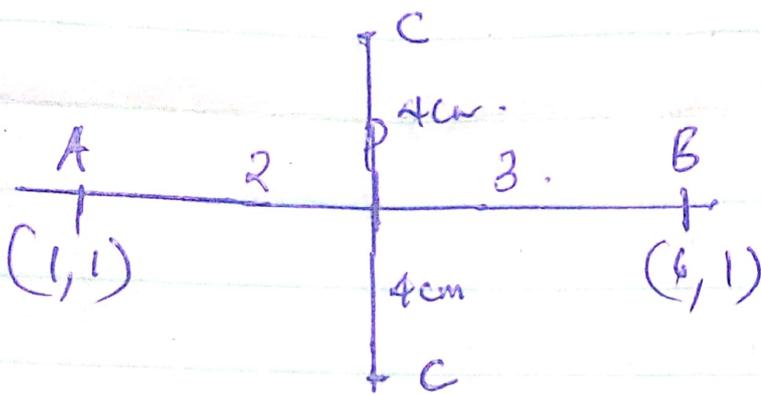
$$2x = 0.7$$

$$x = 0.35$$

0.35 of 500

$$\frac{35}{100} \times 500 =$$

175 triangles.



$$AB = AO + OB$$

$$= \begin{pmatrix} -1 \\ -1 \end{pmatrix} + \begin{pmatrix} 6 \\ 1 \end{pmatrix}$$

$$= \begin{pmatrix} 5 \\ 0 \end{pmatrix}$$

$$OP = OA + AP$$

$$= \begin{pmatrix} 1 \\ 1 \end{pmatrix} + \frac{2}{5} AB$$

$$= \begin{pmatrix} 1 \\ 1 \end{pmatrix} + \frac{2}{5} \begin{pmatrix} 5 \\ 0 \end{pmatrix}$$

$$= \begin{pmatrix} 1 \\ 1 \end{pmatrix} + \begin{pmatrix} 2 \\ 0 \end{pmatrix} = \begin{pmatrix} 3 \\ 1 \end{pmatrix}$$

$$P = (3, 1)$$

$$e_1 \quad e_2$$

$$(3, 5) \text{ and } \begin{pmatrix} 3 \\ -3 \end{pmatrix}$$