CBSE Class 10 Maths Sample Paper Solution

Section A

1. Number of times he got tail =
$$560 - 230 = 330$$

Probability of getting tail =
$$\frac{Number\ of\ times\ of\ tail\ occurrence}{Total\ times\ tossed} = \frac{330}{560} = 0.589$$

(OR)

Sum of probabilities of all the elementary events = 1

P(white) + P(green) + P(yellow) = 1

$$\frac{1}{4} + P(g) + \frac{5}{8} = 1$$

$$P(g) = 1 \left[-\frac{5}{8} - \frac{1}{4} \right]$$

$$P(g) = 1 - \left[\frac{5}{8} + \frac{1}{4}\right] = 1 - \left[\frac{5}{8} + \frac{2}{8}\right]$$

$$P(g) = 1 - \left[\frac{7}{8}\right]$$

$$P(g) = \frac{8-7}{8} = \frac{1}{8}$$

2. Let the shadow at 45° = x metre

Therefore, the shadow at $80^{\circ} = x - 20 \text{ m}$

Hence the diagram will be like this,

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Ying-Ying Zheng

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