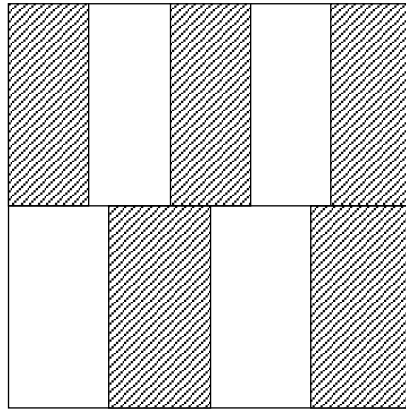


A Maths Question, PSLE 2020



The square above is cut into half. The upper half is cut into 5 equal parts and the lower half is cut into 4 equal parts. The total area of shaded part is  $165 \text{ cm}^2$ . Find the area of entire square.

<< Corresponding Maths >>

<Writing>

Let 1 be the area of entire square.

$$\frac{1}{2} \times \frac{3}{5} = \frac{3}{10} \quad \rightarrow \text{shaded part in the upper half}$$

$$\frac{1}{2} \times \frac{2}{4} = \frac{1}{4} \quad \rightarrow \text{shaded part in the lower half}$$

$$\frac{3}{10} + \frac{1}{4} = \frac{11}{20} \quad \rightarrow \text{Since it corresponds to } 165 \text{ cm}^2,$$

$$165 \div \frac{11}{20} = 300 \quad \rightarrow \text{original square}$$

Answer  $300 \text{ cm}^2$