

A Maths Question, PSLE 2016

Mixed fruit juice is made out of 600 *ml* of orange juice and 1 *ℓ* of water. How much orange juice is needed to make 4 *ℓ* of mixed fruit juice?

<< Ratio >>

<Writing>

$$\begin{aligned}\text{Orange juice : Water} &= 600 \text{ ml} : 1 \text{ ℓ} \\ &= 600 : 1000 \\ &= 3 : 5\end{aligned}$$

$$3 + 5 = 8$$

$$\begin{aligned}\frac{3}{8} \times 4 &= 1.5 \text{ (ℓ)} \\ &= 1 \text{ ℓ } 500 \text{ ml}\end{aligned}$$

Answer 1 ℓ 500 ml