

Solutions

2.1 $700/(2+5) \times 2 = 200$ ml.

2.2 Water/concentrate $= 500/200 = 5/2$.

2.3 Multiply the concentrate by $5/2$: $300 \times 2.5 = 750$.

3.1 False. Shares 200 ml and 500 ml have ratio 2:5. Adding 100 ml to each gives 300:600 = 1:2, which is different.

Local review guidance: show the chosen method; give the checked result; explain the condition or failed shortcut. This is authored classroom guidance.