

Reasoning and Problem Solving Calculate with Metric Measures

Developing

1a. 150ml

2a. 984cm > 0.8m; 889cm > 0.4m;
988cm > 0.4m

3a. Marcus is incorrect, because 8 x 70kg
is greater than 500kg (560kg).

Expected

4a. 5 jugs

5a. 0.7kg > 500g; 0.7kg > 0.05kg; 0.5kg >
0.07kg

6a. Diana is incorrect because the length
needed for 30 jars is $30 \times 10\text{cm} = 300\text{cm}$ or
3m

Greater Depth

7a. 2.68m

8a. 5,390ml > 3.85L

9a. Yes, Jacob is correct because $30 \times$
 $405\text{g} = 12,150\text{g}$. Two thirds of this is 8,100g
8.1kg.

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Developing

1b. 20

2b. 0.7kg < 860g

3b. Libby is incorrect, because 12 litres –
6,250ml is less than 6 litres (5.75L).

Expected

4b. 11 planks

5b. 4.5L > 750 ml; 4.5L > 557ml;
5.5L > 457ml; 7.5L > 455ml; 7.5L > 554ml

6b. Filippo is incorrect because the weight
of 18 batteries is $18 \times 12\text{g} = 216\text{g}$
(0.216kg). He has 17 batteries.

Greater Depth

7b. 4,725g

8b. 0.12km > 0.024km

9b. Yes, Genevieve is correct because
there will be 3,750ml left which is five
eighths of 6 litres.