

Reasoning and Problem Solving

Convert Metric Measures

Developing

- 1a. Luke is correct because his horse ate 8.4kg of hay on Thursday, which is more than any other day.
- 2a. Various answers, for example: 2,100ml (2.1L); 2,300ml (2.3L); 2,500ml (2.5L)
- 3a. Grace's table is incorrect. She has mixed up two digits in the m column.

cm	m
2,450cm	24.5m
3,240cm	32.4m
4,260cm	42.6m

Expected

- 4a. John is incorrect because his pet snail travelled 11.15m on Wednesday, which is more than any other day.
- 5a. Various answers, for example: 4,010g (4.01kg); 4,020g (4.02kg); 4,030g (4.03kg)
- 6a. Joey's table is incorrect. He has mixed up two digits in the L column.

ml	L
24ml	0.024L
310ml	0.31L
1,820ml	1.82L

Greater Depth

- 7a. Hannah is incorrect because her garden received 13.804L of water in Week 1, which is more than any other week.
- 8a. Various answers, for example: 601,013m (601.013km); 601,014m (601.014km); 601,015m (601.015km)
- 9a. Jack's table is incorrect. He has found a half of the measurements instead of a quarter and he has not included a zero as a placeholder when converting.

$\frac{1}{4}$	m	km
758.5m	3,034m	3.034km
501.5m	2,006m	2.006km
175.5m	702m	0.702km

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Developing

- 1b. Farah is incorrect because her sunflower grew 69cm in Week 4, which is more than any other week.
- 2b. Various answers, for example: 5,200g (5.2kg), 5,400g (5.4kg), 5,600g (5.6kg)
- 3b. Tim's table is incorrect. He has divided by 100 instead of 1,000.

ml	L
450ml	0.45L
3,200ml	3.2L
6,400ml	6.4L

Expected

- 4b. Ellie is incorrect because her container filled with 240ml on Friday, which is more than any other day.
- 5b. Various answers, for example: 24.501m (2,450.1cm); 24.502m (2,450.2cm); 24.503m (2,450.3cm)
- 6b. Charlotte's table is incorrect. She has divided by 100 instead of 1,000.

g	kg
2,003g	2.003kg
72,106g	72.106kg
6,021g	6.021kg

Greater Depth

- 7b. Sartaq is incorrect because Rhoe's tower was 585.304cm tall, which is taller than any of the other towers.
- 8b. Various answers, for example: 3012.26ml, 3024.16ml, 3082.04ml.
- 9b. Beth's table is incorrect. She has found 1% instead of 10% and mixed up two digits when converting.

10%	mm	m
50.8mm	508mm	0.508m
602.1mm	6,021mm	6.021m
403mm	4,030mm	4.03m