

Push Tasks



Reason about capacity using kilolitres and megalitres, and justify your working.

1. A tank holds 8.5 kL. Pool 1 takes 1.8 kL and Pool 2 takes 2.4 kL. How much is left for Pool 3?

2. A pump fills at 2.4 kL/h. How much does it fill in a 40-hour week, in kL?

3. Tank A holds 16.2 kL. If 385 L is removed, what remains, in kL?

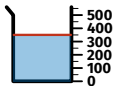
4. A reservoir holds 1.05 ML and releases water at 350 L/min. How many hours to empty it?

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Use a measuring jug and rate comparisons to reason about capacity, showing your justification.

5.



Fills a 5 L container. Full jugs needed, and leftover mL?

7. Tap A fills a 1.35 kL tank in 3000 seconds. Tap B fills a 900 L tank in 1800 seconds. Which tap has the faster flow rate? Justify with a rate comparison.

6. A café has 10 L of milk. Each coffee uses 80 mL. Can they make 130 coffees today? Justify your answer.

8. A pipeline is limited to 80 kL/h. 12 pumps each deliver 6.3 kL/h. Is the pipeline over or under its limit, and by how much?

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9. A tanker offloads 250 kL at 3.5 kL per cycle. How many full cycles are needed to offload it all? Explain why you round up.

10. A truck (18 kL) and trailer (12 kL) must carry 24 drums, each holding 950 L. Is this within their combined capacity? By how much?

11. A water store holds 85 kL and dispenses 320 L per day. After how many full days does it run out, and how much remains unused at that point?

12. A household's water budget is 200 kL per quarter. They have used 155.6 kL with 18 days left, using water at a steady 2.2 kL/day. Will they stay within budget? By how much?