Liquid Volumes and Masses

Spot mistakes, reason, and work backward

Name _____ **Date** _____ **Score** _____ / 6

QUICK REVIEW

Liters (L) measure liquid volume, as in a 3-L pitcher. Grams (g) measure light objects, such as a 5-g crayon. Kilograms (kg) measure heavier things, such as a 2-kg bag of rice. Read the scale intervals and combine only like units.

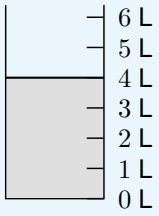
Worked example

Read the liquid level. How much more liquid will fill the container to the top numbered mark?

1. The liquid surface meets the 4-L mark.

2. The top numbered mark is 6 L; $6 - 4 = 2$ L more will reach it.

Answer: 4 L; 2 L more.



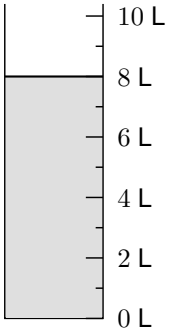
Practice Problems

Show your thinking.

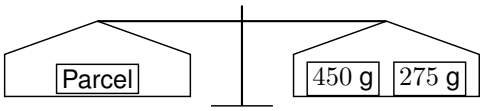
1. A recipe uses 6 L of water. A parcel has mass 4 kg. May we add them and report 10 L? Explain.

2. A container held some water. After 3 L are poured out, 5 L remain. How much was there at first?

3. Read the liquid level. How much more liquid will fill the container to the top numbered mark?



4. A balanced scale has one parcel on the left and weights of 450 g and 275 g on the right. Find the parcel mass.



5. A bag has mass 725 g. A scoop removes 368 g. What mass remains?

6. Choose a sensible unit, L or g, for a bottle of drinking water. Write a reasonable label using 2.

Answer Key

1. No; liters and kilograms measure different attributes.
2. 8 L.
3. 8 L; 2 L more.
4. 725 g.
5. 357 g.
6. 2 L.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. 6 L is liquid volume, but 4 kg is mass, not 4 L.

2. The numerical sum $6 + 4 = 10$ does not produce a volume total. Keep the labels 6 L and 4 kg separate.

Problem 2

1. Put the poured water back in the calculation: $5 + 3 = 8$ L.

2. Check: $8 - 3 = 5$ L remains.

Problem 3

1. The liquid surface meets the 8-L mark.

2. The top numbered mark is 10 L; $10 - 8 = 2$ L more will reach it.

Problem 4

1. The two weights together have mass $450 + 275 = 725$ g.

2. A balanced scale has equal masses on both sides; the parcel therefore has mass 725 g.

Problem 5

1. The mass decreases by 368 g: $725 - 368 = 357$.

2. Check the remaining and removed masses: $357 + 368 = 725$ g.

Problem 6

1. A bottle holds liquid, so liters measure its liquid volume; grams would measure mass.

2. The label 2 L matches liquid volume.

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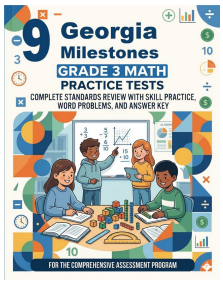

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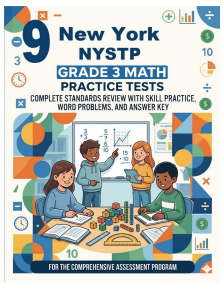

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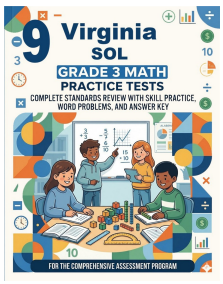

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