

Science Skills -6

Metric Conversions 2


Metric Value Chart for Capacity Measurements

Unit	Kiloliter	Hectoliter	Dekaliter	liter	Deciliter	Centiliter	Milliliter
abbrev.	kL	hL	dkL	L	dL	cL	mL
value	1,000 L	100 L	10 L	1 L	0.1 L	0.01 L	0.001 L

The liter is the basic unit of **capacity**. The metric units of capacity used most often are the kiloliter (kL), the liter (L), and the milliliter (mL).

Convert the following:

- 100 kL = _____ L
- 500 mL = _____ kL
- 1.5 L = _____ mL
- .5 kL = _____ L
- 2.5 L = _____ kL
- 3.75 L = _____ kL
- .5 mL = _____ kL
- .5 L = _____ mL
- $1.5 \text{ L} + 3.25 \text{ mL} + 3.75 \text{ kL} + 6.5 \text{ mL} - 3 \text{ L} =$ _____ L
- $7.5 \text{ L} - 2.5 \text{ L} + .5 \text{ mL} + 4.5 \text{ kL} - 1.6 \text{ mL} =$ _____ mL
- _____ mL = 5 L
- _____ kL = 15 mL
- _____ mL = 2 kL
- _____ L = 7.5 kL
- _____ kL = 4 L
- _____ L = 3.5 mL
- _____ mL = 1.3 kL
- _____ L = .4 kL
- _____ kL = 9 L
- _____ kL = .07 mL

1. Brian drank 575 mL of juice. Robert drank 0.55 L of juice. Who drank more juice?
 2. Jewel had 18 L of gas in her car. Jan had 0.0075 kL of gas in her truck. Who had more gas in her vehicle?
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3. Kira poured .25 L of soda in a cup for Sam. She poured 200 mL of soda in a cup for Ben Li. Who received more soda?
 4. Wendy has used 0.79 kL of water to fill her fish tank so far. If her tank holds 900 liters, how much more water does she need to add?
 5. Jenna poured $3\frac{3}{4}$ liters into her thermos. How many more liters does Jenna need to fill her thermos if it holds 5 liters?
 6. Mika pours 32 mL of perfume into a bottle. Then she pours 94 mL more into the bottle. How many liters of perfume are in the bottle?

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Place the answers to 4-6 above in the grids below.

4.

0	0	0	0		0	0
1	1	1	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	7		7	7
8	8	8	8		8	8
9	9	9	9		9	9

5.

0	0	0	0		0	0
1	1	1	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	7		7	7
8	8	8	8		8	8
9	9	9	9		9	9

6.

0	0	0	0		0	0
1	1	1	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	7		7	7
8	8	8	8		8	8
9	9	9	9		9	9