

Renaming capacity (l ↔ ml); reading a jug scale

CURRICULUM ALIGNMENT

MEA.MSR.3b

identify the relationship between equivalent units of measurement, and rename measures using equivalent units.

INTERACTIVES Unit Converter · challenge, display, explore

WHAT THIS LESSON TEACHES

A litre (l) measures larger amounts of liquid and a millilitre (ml) is much smaller. One litre is exactly 1,000 millilitres, so to rename litres to millilitres you multiply by 1,000, and to rename millilitres to litres you divide by 1,000.

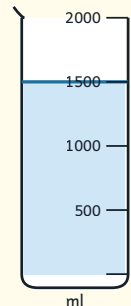
→ 2 l = 2,000 ml, and 3,000 ml = 3 l.

→ 1 l 500 ml is the same amount as 1,500 ml.

MODEL THIS ON THE BOARD

RENAME 1 L 500 ML INTO MILLILITRES

- 1 1 litre = **1,000** ml.
- 2 Keep the extra **500** ml.
- 3 Add: $1,000 + 500 = \mathbf{1,500}$ ml.



DISCUSSION STARTER

REFLECT Do you find it easier to think in litres or millilitres when comparing two amounts?

ANSWER KEY

a) 3,000 ml

b) 2 l

c) 1,600 ml

Q1: 3,000 ml

Q2: 2 l

Q3: 4,000 ml

Q4: 1,250 ml

Spot: Aoife used 100 ml in a litre instead of 1,000 ml. 1 l = 1,000 ml, so 3 l = $3 \times 1,000 = 3,000$ ml.

EXTENSION SHEET · STRETCH ANSWERS

S1: 720 mm

S2: 71000 m

S3: 28.4 cm

S4: 10.5 cm

S5: 9300000 cm

Investigation: How much water in a day? — open-ended; scan pupils' working for valid solution paths rather than a single answer.