

Capacity

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Capacity: the amount a container can hold

↳ used with liquid measurements.

↳ METRIC: unit for capacity is Litre (L)

$$1 \text{ L} = 1000 \text{ mL} \#$$

↳ IMPERIAL: capacity is measured in gallons, quarts, ~~pints~~, ~~cups~~ and fluid ounces

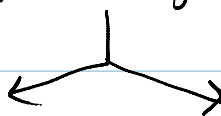
see
DATA
BOOK #

1 gallon = 4 quarts (qt.)

1 quart = 32 fluid ounces (fl. oz)

1 gallon (UK) $\approx \frac{6}{5}$ (= 1.2) gallons (US)

British (UK)
gallon



American (US)
gallon

$$3.52 \text{ fl. oz (UK)} = 100 \text{ mL}$$

$$3.38 \text{ fl. oz (US)} = 100 \text{ mL}$$

$$0.26 \text{ gallons (US)} = 1 \text{ L}$$

$$1.06 \text{ quarts (US)} = 1 \text{ L}$$

Ex. #1 Convert:

(a) 30 L into gallons (US)

$$30 \cancel{\text{L}} \times \frac{0.26 \text{ gallons (US)}}{1 \cancel{\text{L}}} = 7.8 \text{ gallons (US)}$$

(b.) 3 L into qt. (US)

$$3 \cancel{\text{L}} \times \frac{1.06 \text{ qt. (US)}}{1 \cancel{\text{L}}} = \boxed{3.18 \text{ qt. (US)}}$$