

Units of measurement - conversion of length, mass, capacity and temperature

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|-------|--------|-------|
| Name: | Class: | Date: |
|-------|--------|-------|

| | | |
|------|------|---|
| Mark | / 12 | % |
|------|------|---|

1) Write missing units of mg, g or kg to make the sentences correct [1]

a) 1500 mg = 1.5

b) 7.5 = 7500 g

2) Complete the sentences. [1]

a) 9000 ml = litres

b) ml = 8 litres

3) Convert between the units of length [2]

a) 4 km = m

b) 1 cm = m

4) Convert between the units of weight [2]

a) 12 tonnes = kg

b) 5 kg = tonnes

5) Convert between the units of capacity [1]

7 cm³ = Litres

6) Work out the following conversion [1]

2 Litres = ml

7) Work out the following conversion to 3 significant figures, using $C = \frac{5}{9}(F - 32)$ where C is Celcius and F is Fahrenheit

$$22^{\circ}\text{F} = \dots\dots\dots^{\circ}\text{C}$$

[1]

8) Work out the following conversion, using $C = \frac{5}{9}(F - 32)$ where C is Celcius and F is Fahrenheit

[1]

$$75^{\circ}\text{C} = \dots\dots\dots^{\circ}\text{F}$$

9) Complete the table

[1]

| | | | | |
|------------------|----------------|---------------|-----------------|----------------|
| Kilograms | $\frac{3}{20}$ | $\frac{4}{5}$ | $\frac{1}{100}$ | $\frac{1}{10}$ |
| Grams | | | | |

10) Complete the table

[1]

| | | | | |
|--------------------|---------------|---------------|----------------|----------------|
| Litres | $\frac{3}{5}$ | $\frac{4}{5}$ | $\frac{3}{20}$ | $\frac{9}{10}$ |
| Millilitres | | | | |

Solutions for the assessment Units of measurement - conversion of length, mass, capacity and temperature

1) a) $1500 \text{ mg} = 1.5 \text{ g}$

b) $7.5 \text{ kg} = 7500 \text{ g}$

2) a) $9000 \text{ ml} = 9 \text{ litres}$

b) $8000 \text{ ml} = 8 \text{ litres}$

3) a) 4000 m

b) 0.01 m

4) a) 12000 kg

b) 0.005 tonnes

5) 0.007 Litres

6) 2000 ml

7) -5.56°C

8) 167°F

9) $150, 800, 10, 100$

10) $600, 800, 150, 900$