

Varied Fluency

Step 2: Convert Metric Measures

National Curriculum Objectives:

Mathematics Year 6: (6M5) [Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places](#)

Mathematics Year 6: (6M9) [Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate](#)

Differentiation:

Developing Questions to support converting metric measures of length, mass and capacity. Using multiples of 5 with up to 1 decimal place (0.5).

Expected Questions to support converting metric measures of length, mass and capacity. Using any number with up to 3 decimal places. Sometimes includes zero as a place holder.

Greater Depth Questions to support converting metric measures of length, mass and capacity. Using any number with up to 3 decimal places. Includes a number of zeros as place holders. Including fractions and percentages to convert measurements.

More Year 6 [Converting Units](#) resources.

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Convert Metric Measures

Convert Metric Measures

1a. Complete the following statement.

3kg is equal to ____g.



VF

1b. Complete the following statement.

1.5m is equal to ____cm.



VF

2a. Put these measurements in order from smallest to largest.

100cm

1.5m

150mm

1.5cm



VF

2b. Put these measurements in order from largest to smallest.

95g

325g

9.5kg

9,000g



VF

3a. Complete the missing operation and measurement to convert between kg and g.

1.5kg = _____g



VF

3b. Complete the missing operation and measurement to convert between cm and mm.

10.5cm = _____mm



VF

4a. Find and correct the errors in these conversions:

A. 150cm = 15m

B. 50m = 5,000cm

C. 25mm = 2.5cm

D. 1L = 100ml



VF

4b. Find and correct the errors in these conversions:

A. 500g = 5kg

B. 2,200ml = 22L

C. 1.5kg = 1,500g

D. 50cm = 0.5m



VF

Convert Metric Measures

5a. Complete the following statement.

2.52L is equal to ____ ml.



VF

Convert Metric Measures

5b. Complete the following statement.

3.04kg is equal to ____ g.



VF

6a. Put these measurements in order from smallest to largest.

1.5m

176cm

1,605mm

1m

251cm

1.454mm



VF

6b. Put these measurements in order from largest to smallest.

1.27kg

1,002g

125g

1kg

0.25kg

500g



VF

7a. Complete the missing operation and measurement to convert between g and kg.

539g

= ____ kg



VF

7b. Complete the missing operation and measurement to convert between L and ml.

3.2L

= ____ ml



VF

8a. Find and correct the errors in these conversions:

A. 1,510m = 151km

B. 1.65kg = 1,650g

C. 72cm = 7.2mm

D. 7,505mm = 7.505m



VF

8b. Find and correct the errors in these conversions:

A. 320mm = 32cm

B. 1,018cm = 10.18m

C. 1.33kg = 133g

D. 2,055g = 2.55kg



VF

Convert Metric Measures

9a. Complete the following statement.

26% of 1.239kg is equal to ____g.



VF

Convert Metric Measures

9b. Complete the following statement.

38% of 675cm is equal to ____m.



VF

10a. Put these measurements in order from smallest to largest.

0.008m

0.63cm

$\frac{1}{5}$ of 10.4m

8,003mm

50% of 1.46mm

81.08cm



VF

10b. Put these measurements in order from largest to smallest.

10% of 0.56ml

0.001L

0.024L

0.206ml

$\frac{1}{4}$ of 0.18L

0.203L



VF

11a. Complete the missing operation and measurement to convert between m and mm.

1.104m = ____mm



VF

11b. Complete the missing operation and measurement to convert between L and ml.

60.002L = ____ml



VF

12a. Find and correct the errors in these conversions:

A. 563m = 0.563km

B. 23.56mm = 2,356cm

C. 548,000mm = 5,480m

D. 800.006cm = 8,000.06mm



VF

12b. Find and correct the errors in these conversions:

A. 3.546L = 354.6ml

B. 2ml = 0.02L

C. 0.003L = 3ml

D. 598ml = 0.598L



VF

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Developing

- 1a. **3,000g**
2a. **1.5cm; 150mm; 100cm, 1.5m**
3a. **x 1,000; 1,500**
4a. **A. 150cm = 1.5m; D. 1L = 1,000ml**

Expected

- 5a. **2,520ml**
6a. **1.454mm; 251cm; 1m; 1.5m; 1,605mm;
176cm**
7a. **÷ 1,000; 0.539**
8a. **A. 1,550m = 1.51km; C. 72cm = 720mm**

Greater Depth

- 9a. **322.14g**
10a. **50 % of 1.46mm (0.73mm); 0.63cm;
0.008m; 81.08cm; $\frac{1}{5}$ of 10.4m (2.08m);
8,003mm**
11a. **x 1,000; 1,104**
12a. **B. 23.56mm = 2.356cm; C. 548,000mm
= 548m**

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Convert Metric Measures

Developing

- 1b. **150cm**
2b. **9.5kg; 9,000g; 325g; 95g**
3b. **x 10; 105**
4b. **A. 500g = 0.5kg; B. 2,200ml = 2.2L**

Expected

- 5b. **3,040g**
6b. **1.27kg; 1,002g; 1kg; 500g; 0.25kg;
125g**
7b. **x 1,000; 3,200**
8b. **C. 1.33kg = 1,330g; D. 2,055g =
2.055kg**

Greater Depth

- 9b. **2.565m**
10b. **0.203L; $\frac{1}{4}$ of 0.18L (0.045L); 0.024L;
0.001L; 0.206ml; 10% of 0.56ml (0.056ml)**
11b. **x 1,000; 60,002**
12b. **A. 3.546L = 3,546ml; B. 2ml = 0.002L**