

Homework/Extension

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:

Questions 1, 4 and 7 (Varied Fluency)

Developing Circle the incorrect conversions of length, mass and capacity. Measures are multiples of 5 with up to 1 decimal place.

Expected Circle the incorrect conversions of length, mass and capacity. Measures include numbers with up to 3 decimal places and sometimes includes zero as a placeholder.

Greater Depth Circle the incorrect conversions of length, mass and capacity. Measures include numbers with up to 3 decimal places and a number of zeros as place holders. Includes fractions and percentages to convert measurements.

Questions 2, 5 and 8 (Varied Fluency)

Developing Match the units of measures to the correct conversions. Measures are multiples of 5 with up to 1 decimal place.

Expected Match the units of length to the correct conversions. Measures include numbers with up to 3 decimal places and sometimes includes zero as a placeholder.

Greater Depth Match the units of capacity to the correct conversions. Measures include numbers with up to 3 decimal places and a number of zeros as place holders. Includes fractions and percentages to convert measurements.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Decide who is correct and explain your answer using knowledge of converting metric measures. Measures are multiples of 5 with up to 1 decimal place.

Expected Decide who is correct and explain your answer using knowledge of converting metric measures. Measures include numbers with up to 3 decimal places.

Greater Depth Decide who is correct and explain your answer using knowledge of converting metric measures. Measures include numbers with up to 3 decimal places and a number of zeros as place holders.

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

Did you like this resource? Don't forget to [review](#) it on our website.

Convert Metric Measures

1. Circle the incorrect conversions.

A. 2,500ml = 2.5L

E. 15,000g = 1.5kg

B. 50mm = 5cm

F. 5.5L = 5,500ml

C. 1,000g = 10kg

G. 40cm = 4,000mm

D. 2m = 200cm

H. 25kg = 2,500g



VF
HW/Ext

2. Match the units of measure to the correct conversions.

6,500g

350mm

4,500ml

5,000ml

35cm

6.5kg

5L

4.5L



VF
HW/Ext

3. Mike and Samara are converting 355mm into centimetres.



Mike

I need to divide by 100. The answer is 3.5cm.

I need to divide by 10. The answer is 35.5cm.



Samara

Who is correct? Explain why.



RPS
HW/Ext

Convert Metric Measures

4. Circle the incorrect conversions.

A. 160cm = 16m

E. 562g = 0.56kg

B. 50.5m = 5,005cm

F. 500m = 5km

C. 2,103g = 2.103kg

G. 75ml = 7.5L

D. 1L = 100ml

H. 5L = 5,000ml



VF
HW/Ext

5. Match the units of length to the correct conversions.

710cm

7m

700cm

0.5m

500mm

71m

7,100cm

5.02m

502cm

7.1m



VF
HW/Ext

6. Aelin and Rowan are converting 3.657L into millilitres.



Aelin

The answer is
3,657ml.

The answer is
365.7ml.



Rowan

Who is correct? Explain why.



RPS
HW/Ext

Convert Metric Measures

7. Circle the incorrect conversions.

A. $37\text{m} = 370\text{mm}$

E. $\frac{5}{6}$ of $18.6\text{cm} = 1,550\text{mm}$

B. $\frac{3}{9}$ of $459\text{mm} = 1.53\text{cm}$

F. $106.02\text{kg} = 10,620\text{g}$

C. $2.043\text{L} = 2,043\text{ml}$

G. 22% of $16.8\text{L} = 3,696\text{ml}$

D. 14% of $2.8\text{kg} = 3,920\text{g}$

H. $40,206\text{g} = 40.26\text{kg}$



VF
HW/Ext

8. Match the units of capacity to the correct conversions.

25% of 2.5L

1,696ml

21.04L

106ml

$\frac{2}{5}$ of 4.24L

8,835ml

0.106L

625ml

15% of 58.9L

21,040ml



VF
HW/Ext

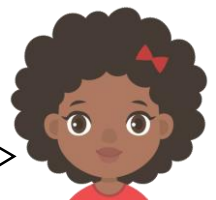
9. Rudie and Molly are converting 112.008m into millimetres.



Rudie

The answer is
112,008mm.

The answer is
1,1200.8mm.



Molly

Who is correct? Explain why.



RPS
HW/Ext

Homework/Extension

Convert Metric Measures

Developing

1. C. (1kg), E. (15kg), G. (400mm), H (25,000g)

2.

6,500g	350mm
4,500ml	5,000ml
35cm	6.5kg
5L	4.5L

3. Samara is correct because to convert mm to cm, you need to divide by 10.
 $355 \div 10 = 35.5$

Expected

4. A. (1.6m), B. (5,050cm), D. (1,000ml), E. (0.562kg), F. (0.5km), G. (0.075ml)

5.

710cm	7m
700cm	0.5m
500mm	71m
7,100cm	5.02m
502cm	7.1m

6. Aelin is correct because to convert L to ml, you need to multiply by 1,000.
 $3.657 \times 1,000 = 3,657$

Greater Depth

7. A. (37,000mm), B. (15.3cm), D. (392g), E. (155mm), F. (106,020g), H. (40.206kg)

8.

25% of 2.5L	1,696ml
21.04L	106ml
$\frac{2}{5}$ of 4.24L	8,835ml
0.106L	625ml
15% of 58.9L	21,040ml

9. Rudie is correct because to convert m to mm, you need to multiply by 1,000.
 $112.008 \times 1,000 = 112,008$