Varied Fluency Step 2: Convert Metric Measures

National Curriculum Objectives:

Mathematics Year 6: (6M6) Convert between miles and kilometres 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 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

Differentiation:

Developing Questions to support converting metric measures. Using multiples of 5 with up to 1 decimal place.

Expected Questions to support converting metric measures. Using multiples of 5 with up to 3 decimal places. Sometimes includes zero as a place holder.

Greater Depth Questions to support converting metric measures. 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. True or false?

10% of 3kg is smaller than 1,000g.

1b. True or false?

50% of 1m is larger than 600cm.



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

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

100cm

1.5m

150mm

1.5cm

95g

325g

9.5kg

9,000g



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

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

10.5cm

mm



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

150cm a.

15m

b.

5,000cm 50m

C.

2.5cm

d.

1L

25mm

a.

conversions:

500g

4b. Find and correct the errors in these

5kg

b.

2,200ml

22L

15kg

1,500g

100ml

50cm

0.5m



Convert Metric Measures

Convert Metric Measures

5a. True or false?

50% of 2.5L is larger than 1,000ml.

5b. True or false?

20% of 2.5kg is smaller than 500g.



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

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

smallest to largest.

1.5m | 175cm | 1,605mm |

1.25kg | 1,005g | 125g

1m

250cm

1.455mm

1kg

0.25kg

500g



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

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

3.5L



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

a. 1.550m = 155km

b. 1.65kg = 1,650g

c. 75cm = 7.5mm

7,505mm = 7.505m

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

a. 320mm = 32cm

b. 1,015cm = 10.15m

c. 1.35kg = 135g

d. 2,055g = 2.55kg



d.

Convert Metric Measures

Convert Metric Measures

9a. True or false?

26% of 1.239kg is smaller than 322g.

9b. True or false?

38% of 675cm is larger than 2.465m.



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

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

0.008m

0.63cm

2.08m

0.056ml

0.001L

0.024L

VF

8,003mm

0.73mm

81.08cm

0.206ml

0.045L

0.203L



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

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

1.104m

60.002L

conversions:





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

563m a.

0.563km

b.

23.56mm 2,356cm

c. 548,000mm

5,480m

800.006cm

a.

b.

3.546L

12b. Find and correct the errors in these

354.6ml

0.02L

0.003L

598ml

2ml

3ml

0.598L

8,000.06mm

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Developing

1a. True. 300g (10% of 3kg) is smaller than 1,000g.

2a. 1.5cm; 150mm; 100cm, 1.5m

3a. x 1,000; 1,500

4a. a: 150cm = 1.5m; d: 1L = 1,000ml

Expected

5a. True. 1,250ml (50% of 2.5L) is larger than 1,000ml.

6a. 1.455mm; 1m; 1.5m; 1,605mm; 175cm;

250cm

7a. ÷ 1,000; 0.535

8a. a: 1,550m = 1.55km; c: 75cm = 750mm

Greater Depth

9a. False. 322.14g (26% of 1.239kg) is larger than 322g.

10a. 0.73mm; 0.63cm; 0.008m; 81.08cm;

2.08m; 8,003mm 11a. x 1,000; 1,104

12a. b: 23.56mm = 2.356cm; c: 548,000mm

= 548m

<u>Developing</u>

1b. False. 500cm (50% of 1m) is smaller than 600cm.

2b. 9.5kg; 9,000g; 325g; 95g

3b. x 10; 105

4b. a: 500g = 0.5kg; b: 2,200ml = 2.2L

Expected

5b. False. 500g (20% of 2.5kg) = 500g. 6b. 1.25kg; 1,005g; 1kg; 500g; 0.25kg; 125g

7b. x 1,000; 3,500

8b. c: 1.35kg = 1,350g; d: 2,055g = 2.055kg

Greater Depth

9b. True. 2.565m (38% of 675cm) is larger than 2.465m.

10b. 0.203L; 0.045L; 0.024L; 0.001L; 0.206ml; 0.056ml

11b. x 1,000; 60,002

12b. a: 3.546L = 3,546ml; b: 2ml = 0.002L

