Tuesday 5/1/2021

Maths – Y6 - Measurement

L.O. Convert units of measure.

What conversions can you recall from yesterday?

What units of length, mass and capacity do you know?

What are metric units?

The metric system is a system of weights and measures. Metric units are based on the number 10 and the powers of 10 $(10^2, 10^3, and so on)$. They include metres (m), litres (l) and kilograms (kg).

What are imperial units?

Imperial units are part of an old measuring system that is different from the metric system. Here are some imperial units:

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Length 12 inches (in) = 1 foot (ft)

3 \text{ ft} = 1 \text{ yard (yd)}

1760 \text{ yards} = 1 \text{ mile}

Capacity 8 pints (pt) = 1 gallon (gall)

Mass 16 ounces (oz) = 1 pound (lb)

14 \text{ lb} = 1 \text{ stone (st)}
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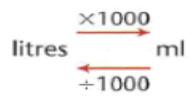
L.O. Convert units of measure.

UNITS OF LENGTH

1 mile = 1.6 km8 km = 5 miles

Examples

UNITS OF CAPACITY



Examples

UNITS OF MASS

Examples

$$2 \text{ kg } 700 \text{ g} = 2700 \text{ g} = 2.7 \text{ kg}$$

 $6 \text{ kg } 390 \text{ g} = 6390 \text{ g} = 6.39 \text{ kg}$
 $0 \text{ kg } 105 \text{ g} = 105 \text{ g} = 0.105 \text{ kg}$

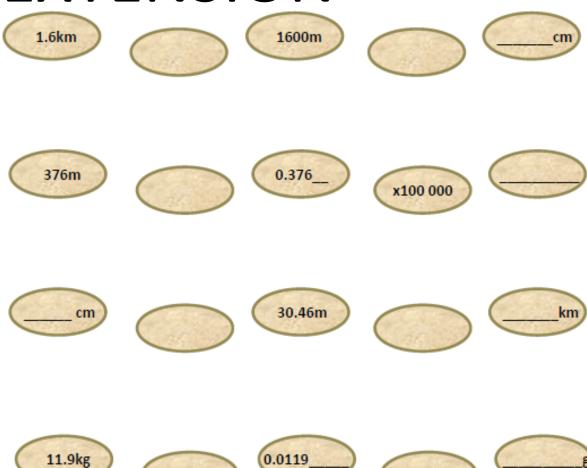


WARM UP... Have a go, then mark your answers using the last slide. Then submit your work to SeeSaw.

	B	•
opy and complete.	Copy and complete.	Copy and complete by
5000 m = km	1 2168 m = km	putting $>$, $<$ or $=$ in the box. 10 cm $\boxed{0.09 \text{ m}}$
1800 m = km	2 359 m = km	
3.5 km = m	3 7-708 km = m	
2-9 km = m	0-063 km = m	3 50 g 0-05 kg
640 cm =m	6 29 cm = m	4 2288 ml 2-8 litres
3 25 cm = m	6 580 cm = m	5 3000 mm 0-003 km
7 0.48m = cm	0 0 ⋅ 07 m = cm	6 1440 cm 0.04 km
3 9-36m = cm	8 4-11 m = cm	7 25 g 0.025 kg
2 2mm = cm	9 153 mm = m	8 38 ml 0-008 litres
10 71 mm = cm	00 8 mm = m	Convert to miles
10 54 cm = mm	1 6-49 m = mm	9 47 km 10 73 km
12 0-8 cm = mm	0 0.072 m =mm	● 9.4 km ● 53.8 km
B 0.6 kg =	③ 3-456 kg = ☐ g	Convert to kilometres.
1 3.2 kg = g	1 0.002 kg =	1562 miles
13 970 g = kg	179g = kg	1 284-6 miles
10 4050g = kg	16 3 g = kg	13 65-77 miles
1-6 litres = ml	0 0-6 litres = ml	16 12-29 miles
B 8-2 litres = ml	18 8-01 litres = ml	Each nail weighs 3-85 g
10 300 ml = litres	12 2400 ml = litres	There are 24 nails in a packet. What is the
7900 ml = litres	20 75 ml = litres	total weight of the nails in 60 packets in
Change to:	Change to:	kilograms?
miles km	miles km	18 A lorry travels 263 km
21 40 km 25 2 miles	2 36 km 2 4-8 miles	in Belgium and
22 72 km 26 30 miles	22 50 km 26 62-5 miles	172 miles in England. How much longer in
3 12 km 2 100 miles	23 124 km 27 8 miles	miles is the English
20 28 km 20 11 miles	24 69-2 km 28 250 miles	journey?

Choose a Section you are comfortable with, have a go, then mark your answers using the last slide. Then submit your work to SeeSaw.

EXTENSION



Create your own stepping stone sequence showing converting between units of measure.



Converting Measures Stepping Stones

- · Fill in the stepping stones with the correct operation and number.
- . If an answer is missing, look for the unit of measure and fill in the correct number.
- If the unit is missing, look at the number before and the number in the answer to work out which unit of measure the answer must be in.
- All stepping stone sequences must read from left to right.

ANSWERS

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A			
1 24 mm 2-4 cm	15 0 litres 520 ml 0-52 litres		
2 76cm 0.76m	16 35 cm 9 mm 35.9 cm		
3 15 200 m 15 2 km	17 7 m 20 cm 7-2 m		
4 800 g 0.8 kg	18 2 km 650 m 2.65 km		
5 1100 ml 1·1 litres	19 0 kg 530 g 0.53 kg		
6 6 mm 0.6 cm	20 9 litres 400 ml 9.4 litres		
7 315 cm 3-15 m	21 14-4 km		
8 300 m 0.3 km	22 56 km		
9 8290 g 8-29 kg	23 128 km		
10 900 ml 0.9 litres	24 107-2 km		
11 11 cm 0 mm 11.0 cm	25 20 miles		
12 2m 38cm 2·38m	26 37.5 miles		
13 4 km 700 m 4·7 km	27 60 miles		
14 12 kg 600 g 12.6 kg	28 27-5 miles		

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A				
1 5 km	8 936 cm		15 0.97 kg	22 45 miles
2 1.8 km	9 0-2 cm		16 4.05 kg	23 7.5 miles
3 3500 m	10 7-1 cm		17 1600 ml	24 17.5 miles
4 2900 m	11 540 mm		18 8200 ml	25 3.2 km
5 6.4 m •	12 8 mm		19 0-3 litres	26 48 km
6 0-25 m	13 600 g		20 7.9 litres	27 160 km
7 48 cm	14 3200 g		21 25 miles	28 17.6 km
В				
1 2-168 km	8 411 cm		15 0-179 kg	22 31-25 miles
2 0-359 km	9 0-153 m		16 0-003 kg	23 77.5 miles
3 7708 m	10 0.008 m		17 600 ml	24 43-25 miles
4 63 m	11 6490 mm		18 8010 ml	25 7-68 km
5 0.29 m	12 72 mm		19 2-4 litres	26 100 km
6 5.8 m	13 3456 g		20 0-075 litre	s 27 12-8 km
7 7 cm	14 2 g		21 22.5 miles	28 400 km
c				
1>	5 =	9 2	9-375 km	14 455-36 km
2 <	6 <	10 5-875 km		15 105-232 km
3 =	7 =	11 45-625 km		16 19-664 km
4 < 8	> 12 33-62		3-625 km	17 5-544 kg
		13 2	499-2 km	18 7-625 miles