

Maths

Last week, we started our work on measures.

We learned to convert between units of length and mass.

Today we will focus on capacity.

Watch the video to remind you of what capacity is:

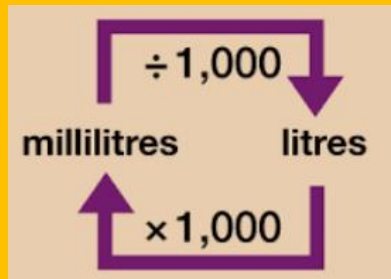
<https://www.youtube.com/watch?v=GKCE8ohIBqE>

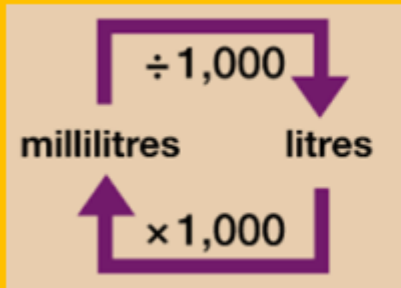
Capacity refers to the amount of **liquid** a container can hold, expressed in units like litres (L) and millilitres (ml).

We know there are 1000ml in a litre, so we need to use our knowledge of multiplying and dividing by 1000 to convert between these units of measurement.

To convert from ml to l we $\div 1000$.

To convert from l to ml we $\times 1000$.





*To convert from ml to l we $\div 1000$.
To convert from l to ml we $\times 1000$.*

Here are some examples:

ml \rightarrow l = $\div 1000$

14 L = 14,000 ml

l \rightarrow ml = $\times 1000$

42,600 ml = 42.6 L

ml \rightarrow l = $\div 1000$

23,500 ml = 23.5 L

l \rightarrow ml = $\times 1000$

10,000 ml = 10 L

**1 litre =
1000
millilitres**

Remember to use a place value chart to help you multiply and divide by 1000!

M	Hth	Tth	Th	H	T	O	t	h	th
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
1 000 000	100 000	10 000	1000	100	10	1	0.1 $\frac{1}{10}$	0.01 $\frac{1}{100}$	0.001 $\frac{1}{1000}$



3

Can I pour a jug that holds 5,050 ml of juice into an empty 5.5 L barrel?
Explain your answer.

1

Litres	Millilitres
0.252	
0.633	
0.191	
0.721	
0.725	

Litres	Millilitres
	7055
	4059
	3096
	8684
	8219

2

0.5 l

★

500 ml

4

Is the following statement correct?

5,000ml

=

55L

Explain your answer.

1



Complete the conversions below.

___ L = 18,000 ml

_____ ml = 83.7 L

32,500 ml = ___ L

_____ ml = 100 L

2

Can I pour a jug that holds 5,050 ml of juice into an empty 5.5 L barrel?
Explain your answer.

3

Is the following statement correct?

$\frac{900}{1000}$ L

=

900ml

>

0.9L

Explain your answer.

4

Which three measurements combine to make 5.7L?

0.5L

1,500ml

3,700ml

1.3L

4.6L



1

$$\underline{\hspace{1cm}} \text{ m} = 18,000 \text{ mm}$$

$$\underline{\hspace{1cm}} \text{ L} = 18,000 \text{ ml}$$

$$32,000 \text{ mm} = \underline{\hspace{1cm}} \text{ m}$$

$$32,500 \text{ ml} = \underline{\hspace{1cm}} \text{ L}$$

$$19.5 \text{ m} = \underline{\hspace{1cm}} \text{ mm}$$

$$\underline{\hspace{1cm}} \text{ ml} = 83.7 \text{ L}$$

$$\underline{\hspace{1cm}} \text{ m} = 700 \text{ mm}$$

$$\underline{\hspace{1cm}} \text{ ml} = 100 \text{ L}$$

2

Use the comparison symbols $<$, $>$ and $=$ to complete the statements below.

$$0.5 \text{ l}$$



$$500 \text{ ml}$$

$$2.7 \text{ m}$$



$$2,300 \text{ mm}$$

$$4,000 \text{ mm} + 3 \text{ m}$$



$$5.5 \text{ m} + 2,500 \text{ mm}$$

$$\frac{2}{10} \text{ L} + \frac{8}{10} \text{ L} + 867 \text{ ml}$$



$$768 \text{ ml} + 1 \text{ L}$$

3

Yasmin has 2.82 L of her new recipe lemonade to put into 30 ml tasting glasses.

How many tasting glasses will she be able to fill and give away to customers?
Explain your answer.

4

7b. Which three measurements combine to make 5.75L?

$$1.75\text{L}$$

$$1,250\text{ml}$$

$$2,700\text{ml}$$

$$1.5\text{L}$$

$$2\frac{3}{4} \text{ L}$$

5

Orange juice is sold in bottles and cartons.

a) Which is better value, the carton or the bottle?

Explain your answer.

b) Dexter buys 12 cartons and 5 bottles of juice.

He pours them into glasses with 200 ml of juice in each glass.

He sells each glass of juice for 40p.

He sells all the glasses of juice.

How much profit does he make?

