

NUMBER SLIDE

Using the number slide assists students to convert L to mL

Many students become confused about how metric units are converted. The Number Slide app helps students visualize the way numbers' digits "slide" to their new values.

Complete the worksheet **WS 1** while working thorough this lesson plan:

1 L = 1000 mL

What does this mean:

- Show students a L in a jug. Compare this to a mL which is 1000th L. (Use a dropper and count out 20 drops of liquid into a teaspoon. A teaspoon holds 5 mL This is roughly a mL. Or, to be more accurate, use a medicine syringe and measure 1 mL exactly.) Compare 1 mL to 1 L the jug full.

Say: 1 L = 1000 mL

- To help
- memorize

"milli"

Ask: 1

What

What (1000)

Introduce the

Enter:

Say: V

Ask: V
the th

- Click:** **x 1000** in the Toolbox and the 9 will slide to the thousands place and three zeros will appear.

- Have students write their answers in the worksheet

- Ask:** To convert 2.5 L to mL what will I need to do?
(enter 2.5 x 1000)

Enter: 2.5 > OK

Ask: Next step? (multiply 2.5 by 1000) **Click:** **x > 1000**

Ask: Which way did the 2.5 move? (It moved three places to the left.)

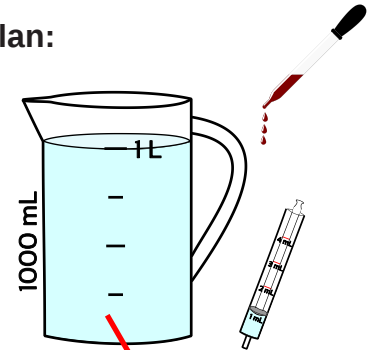
Point out that though only two zeros were added, the 2 and the 5 still moved 3 places left.

Did the number get larger or smaller? (larger)

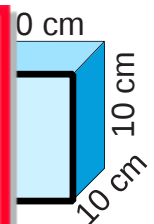
Why does the number get larger when we convert from km to m? (because there are 1000 mL in a L, so the number of mL is multiplied by 1000)

Have the students say and write: 1 L = 1000 mL

Work through the rest of the examples on the first section of the worksheet with the students using the Number Slide Gadget.



A cube of liquid





This is a

PREVIEW

 Subscribe today for a whole

 year's access to ALL our

 worksheets and videos!

Already a subscriber? Log in to download the full version of this worksheet.



M	HTh	TTh	Th	H	T	O	t	h	th
						2	.	5	

M	HTh	TTh	Th	H	T	O	t	h	th
			2	,	5	0	0	.	

NUMBER SLIDE

Using the number slide assists students to convert L to mL

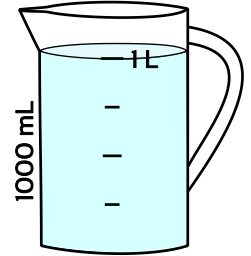
This really is the same process, only backwards. Dividing by a thousand is required to convert from L to mL.

Complete the second section of worksheet WS 1 while working thorough this lesson plan:

1000 mL is the same as 1 L

What does this mean:

- Say:** Nothing has changed: the 1000 mL = 1 L, except now if we convert from 1000 mL we have to divide by one thousand
- Ask:** If 1000 mL = 1 L, what would 2000 mL be in L? (2 L)
- What
- What



Introduce t

- Enter:**
- Say:** v
- Ask:** V (place)
- Click:** the on
- Ask:** V (disapp
- Have s
- Enter:** 360 > OK
- Ask:** To show 360 mL as L what do I have to do? (divide 360 by 1000)

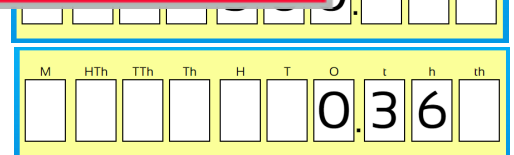
PROFESSOR PETE'S CLASSROOM

This is a

PREVIEW

Subscribe today for a whole year's access to ALL our worksheets and videos!

Already a subscriber? Log in to download the full version of this worksheet.



- Click:** ÷ > 1000
- Ask:** Which way did the 360 move? (It moved three places to the right.)
- What happened to the zero on the end? (it is a trailing zero so it is not needed)
- Why was there a zero added at the front? (because a zero is needed to show there are no ones)
- Did the number get larger or smaller? (smaller)
- Why does the number get smaller when we convert from m to km? (because there are 1000 mL in a L, so the number of L is divided by 1000)
- Have the students say and write:** 1000 mL = 1 L
- Work through the rest of the examples** on the second section of the worksheet WS 1 with the students using the Number Slide Gadget.

ANSWERS

NUMBER SLIDE

Converting kg to g:

1) 1 L = 1,000 mL

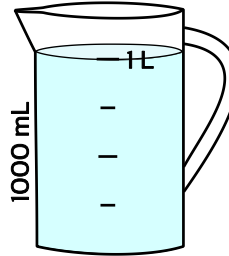
2) 9 L = 9,000 mL

3) 2.5 L = 2,500 mL

4) 5.02 L = 5,020 mL

5) 35.0 L = 35,000 mL

6) 0.4 L = 400 mL



1 mL = 20 drops



1 teaspoon = 5 mL



This is a

PREVIEW

Subscribe today for a whole
year's access to ALL our
worksheets and videos!



Already a subscriber? Log in to download the full version of this worksheet.

Converting

1) 1,000 mL = 1 L

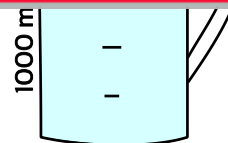
2) 6,000 mL = 6 L

3) 360 mL = 0.36 L

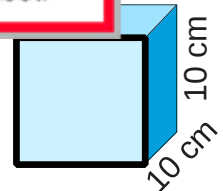
4) 890 mL = 0.89 L

5) 20 mL = 0.02 L

6) 5 mL = 0.005 L



=



7) 12,400 mL = 12.4 L

8) 80,000 mL = 80 L

9) 120 mL = 0.12 L