

The Primary Stage of Grades (4-5)
School Year 2022 – 2023

Name: Key
Date: 1/1/23

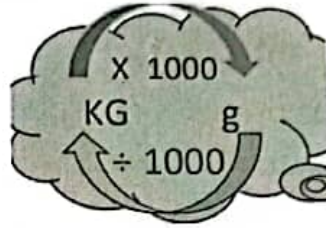
Subject: Math
Class: Grade 4 CP (C, D, E, F&G)

Worksheet (5)

Objectives: Change from larger metric units to smaller one and vice versa.

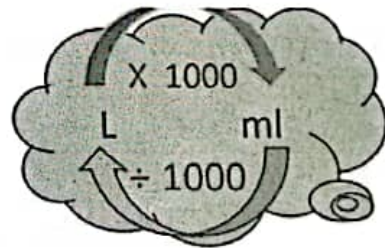
A) Mass: (Kg) and (g) are used to measure mass, or how much something weighs.

Kg	g
Are used to measure larger or heavier objects	Are used to measure smaller objects
Ex: car	Ex: one strawberry



B) Capacity: (L) and (mL) are used to measure capacity or how much something holds.

L	mL
Are used to measure larger amounts	Are used to measure small amounts
Ex: large water bottles	Ex: medicine doses



1) Complete the following table:

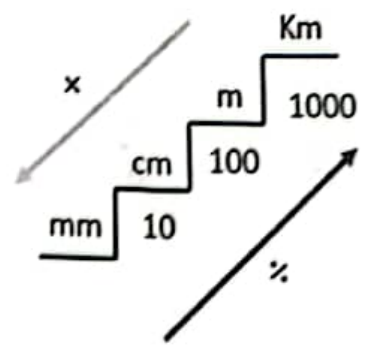
<p>a) $56 \text{ Kg} = \overset{\times 1000}{\underline{56000}} \text{ g}$ $56 \times 1000 = 56000$</p>	<p>b) $3.25 \text{ L} = \overset{\times 1000}{\underline{3250}} \text{ ml}$ $3.25 \times 1000 = 3250.0$</p>
<p>c) $500 \text{ g} = \overset{\div 1000}{\underline{0.5}} \text{ Kg}$ $500 \div 1000 = 0.5$</p>	<p>d) $13.025 \text{ L} = \overset{\times 1000}{\underline{13025}} \text{ ml}$ $13.025 \times 1000 = 13025.0$</p>
<p>e) $0.75 \text{ Kg} = \overset{\times 1000}{\underline{750}} \text{ g}$ $0.75 \times 1000 = 750 \text{ g}$</p>	<p>f) $274 \text{ ml} = \overset{\div 1000}{\underline{0.274}} \text{ L}$ $274 \div 1000 = 0.274$</p>
<p>g) $\frac{3}{4} \text{ Kg} = \underline{750} \text{ g}$ $\frac{3}{4} \times 1000 = 750$ OR $\frac{3 \times 250}{4 \times 250} = \frac{750}{1000}$</p>	<p>h) $0.25 \text{ L} = \overset{\times 1000}{\underline{250}} \text{ ml}$ $0.25 \times 1000 = 250$</p>
<p>i) $902 \text{ g} = \overset{\div 1000}{\underline{0.902}} \text{ Kg}$ $902 \div 1000 = 0.902$</p>	<p>j) $300 \text{ ml} = \overset{\div 1000}{\underline{0.3}} \text{ L}$ $300 \div 1000 = 0.3$</p>
<p>k) $\frac{3}{5} \text{ L} = \underline{600} \text{ ml}$ $\frac{3 \times 200}{5} = \frac{600}{5} = 0.6 \text{ L}$ $\xrightarrow{\times 200}$</p>	<p>l) $\text{Half Kg} = \underline{500} \text{ g}$ $\frac{1}{2} \text{ of } 1000 = 500$ $\frac{1 \times 500}{2 \times 500} = \frac{500}{1000} = 0.5 \text{ Kg}$ $\text{OR } 0.5 \times 1000 = 500$</p>

OR $0.6 \times 1000 = 600$

$\frac{3}{5} = 0.6 = \frac{6}{10}$

c) Length: (Km), (M), (cm) and (mm) are used to measure length or how long, or wide, or tall something is.

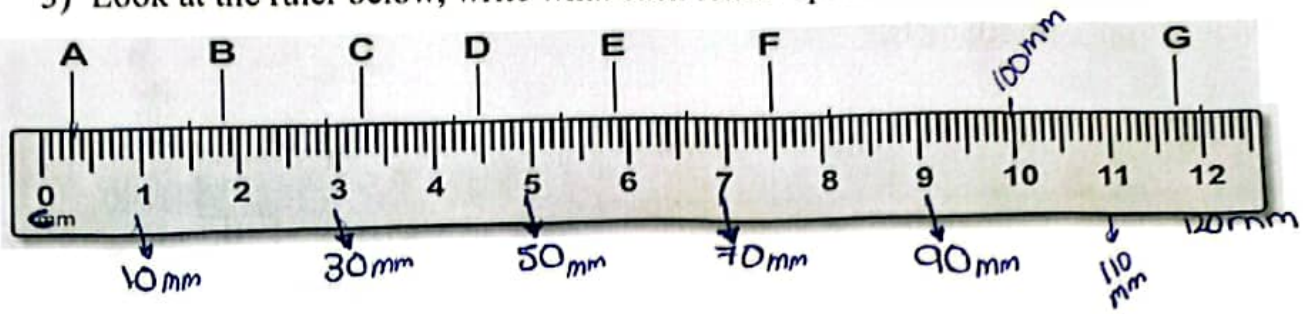
Km	M	cm	mm
Used for longer length		Used for shorter length	
Ex: distance between cities	Ex: height of building	Ex: pencil	Ex: pencil top eraser



2) Complete the following:

<p>a) $1.12 \text{ m} = \underline{112} \text{ cm}$ $1.12 \times 100 = 112$</p>	<p>b) $6.39 \text{ m} = \underline{\hspace{2cm}} \text{ Km}$ $6.39 \div 1000 = 0.00639$</p>
<p>c) $372 \text{ cm} = \underline{0.00372} \text{ Km}$ $372 \div 100,000 = 0.00372$</p>	<p>d) $3.21 \text{ Km} = \underline{3210} \text{ m}$ $3.21 \times 1000 = 3210$</p>
<p>e) $2.7 \text{ m} = \underline{2700} \text{ mm}$ $2.7 \times 1000 = 2700$</p>	<p>f) $60325 \text{ mm} = \underline{0.060325} \text{ Km}$ $60325 \div 1,000,000 = 0.060325$ <i>go back six steps</i></p>
<p>g) $1.56 \text{ m} = \underline{1560} \text{ mm}$ $1.56 \times 1000 = 1560$</p>	<p>h) $23.57 \text{ mm} = \underline{2.357} \text{ cm}$ $23.57 \div 10 = 2.357$</p>
<p>i) $145 \text{ cm} = \underline{1450} \text{ mm}$ $145 \times 10 = 1450$</p>	<p>j) $1.057 \text{ km} = \underline{105700} \text{ cm}$ $1.057 \times 100,000 = 105700$ <i>move 5 steps forward</i></p>

3) Look at the ruler below, write what each letter represents in cm and mm.



Letter	Length in mm	Length in cm	Round to the nearest cm
A	3	0.3	0
B	18 OR 17	1.8 OR 1.7	2
C	32	3.2	3
D	45	4.5	5
E	59	5.9	6
F	74 OR 75	7.4 OR 7.5	7 OR 8
G	117	11.7	12

The distance between B and F is 5.6 cm.

$$7.4 - 1.8 = 5.6$$

2) Use your ruler to measure the line below.

_____ = 47 mm = 4.7 cm

$$\begin{array}{r} \overset{6}{\text{OR}} \quad 7.4 \\ - 1.8 \\ \hline 5.7 \end{array}$$

OR

$$\begin{array}{r} \text{OR} \\ - 7.5 \\ + 1.7 \\ \hline 5.8 \end{array}$$



$$\begin{array}{r} - 7.5 \\ + 1.8 \\ \hline 5.7 \end{array}$$