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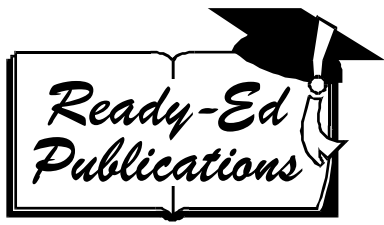
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Book 4 - Grades 4/5

Measurement in Mathematics Series

(Metric version)

**Practical measuring activities for the
classroom.**

Written by Gerry Westenberg. Illustrated by Rod Jefferson.
Originally published as Measurement in Mathematics - Book 6 (1998)
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Measurement - Grades 4/5

Topics/Skills

Length:

- measurement to nearest meter, centimeter, millimeter
- calculations using kilometers
- perimeter of polygons
- diameters and circumferences
- relate measurement of length to other measures.

Area:

- cover surfaces using tessellations
- informal measurement of regions
- simple calculation of area - concrete experiences
- determine areas beyond concrete experience
- relate measurement of area to other measures.

Mass:

- activities based on comparing mass
- measure to the nearest gram and kilogram
- activities involving suspension and projection
- relate measurement of mass to other measures.

Volume and Capacity:

- measure to the nearest milliliter and liter
- measure volume of solids
- measure volume using cubes
- relate measurement of volume to other measures.

Time:

- calculations based on the calendar
- timeline with BC and AD (or common era and before common era)
- activities requiring rhythmic response
- time activities in minutes and seconds
- conversion of time measures
- read clock to the nearest minute and second (12 and 24 hour clocks)
- read and use simple timetables.

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Name:

How long is a piece of string?

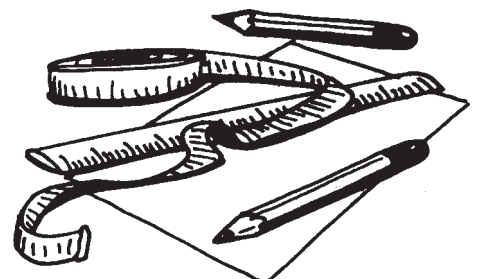
What you need: a ruler.

Guess the lengths of the items listed below and record your guesses. Then use your ruler to find the length of each item. How close was your guess?

Item	inch/mm		inch/cm		inch/m	
	guess	actual	guess	actual	guess	actual
The width of your math book						
Your handspan						
The length of the chalkboard						
The height of your seat						
The length of your desk						
The width of your desk						
The length of this page						
The width of this page						
The height of the door of your classroom						
The width of the door of your classroom						

Now can you work out the distance around the outside of:

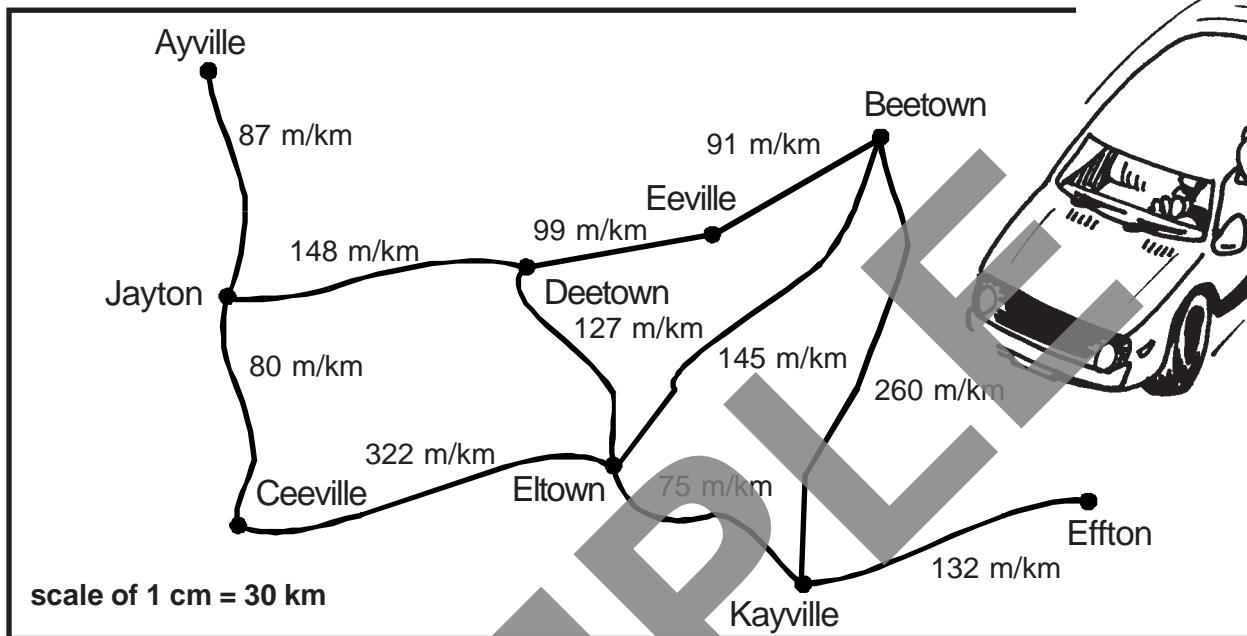
1. Your desk?
2. This page?
3. The door of your classroom?



Name:

Are we there yet?

Your task: The distances between the towns on the map below are measured in either miles or kilometers. Use the map to help you answer the questions



- What is the shortest distance to drive from:
 - Ayville to Ceeville?
 - Beetown to Ceeville?
 - Jayton to Deetown?
 - Ayville to Effton?
 - Effton to Kayville?
 - Eeville to Effton?
- If the road from Deetown to Eeville was blocked by floods, what would your answers for question 1 be now?
 - Ayville to Ceeville
 - Beetown to Ceeville
 - Jayton to Deetown
 - Ayville to Effton
 - Effton to Kayville
 - Eeville to Effton
- If you were to fly a direct route, the distances would be different. Use the scale on the map to find the direct route distances (to the nearest 5 km).
 - Ayville to Ceeville
 - Beetown to Kayville
 - Jayton to Deetown
 - Ayville to Effton
 - Effton to Kayville
 - Eltown to Effton

Activity

Draw a map of your local area and put in some of the important features/towns. Ensure that the scale is accurate.

Name:

Measure to the nearest mL and L

What you need: a graduated mL jar and a liter jar, 10 assorted containers, e.g. milk carton, jam jar, etc.

Your task:

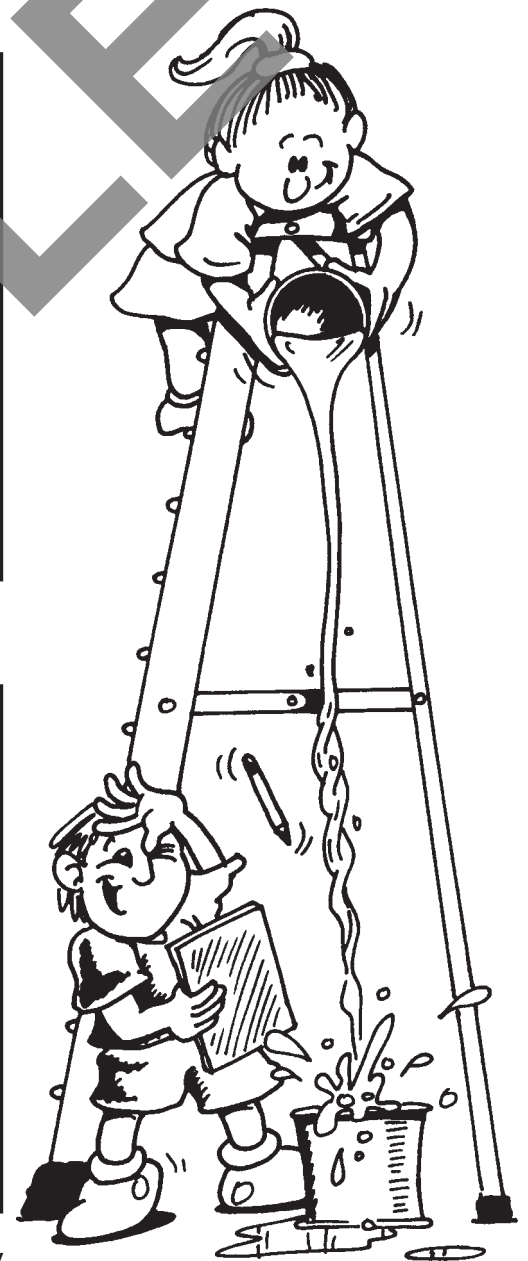
How many mL are in a liter? I'm glad you asked. There are 1000 mL in one liter.

1. Using your **liter container**, fill each of your 10 containers with water one at a time. Some will use more than 1 liter, some will use less than one liter. Estimate the volume, in liters, of **6** of the containers.

Item	Estimate in L
1.	
2.	
3.	
4.	
5.	
6.	

2. Now repeat Activity 1 using the graduated mL jar.

Item	Estimate in mL
1.	
2.	
3.	
4.	
5.	
6.	



See if you can find an easy and accurate way of actually measuring the volume of the remaining four containers.