



# MATHEMATICS



**N.S. Yr. 2 P.73**

**Measure and compare**

## Equipment

Paper, pencil, ruler

Metre rulers, tapes, cubes, kilo weights, scales, cups, jugs etc

# MathSphere

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## Concepts

Plenty of practical work again in this module.

The words learnt in year one should be re-inforced:

**For length:**

Long short tall high low wide narrow deep shallow thick thin  
far near close

**For mass:**

Weight weighs heavy light balances

**For capacity:**

Full empty holds

and there are other words essential for **comparing**:

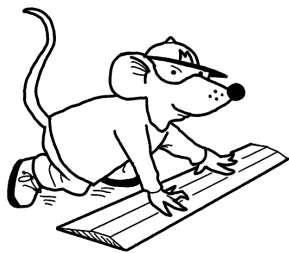
more than less than bigger smaller longer shorter taller higher lower  
wider narrower deeper shallower thicker thinner nearer closer heavier  
lighter fuller

Children should be comparing measurements, saying which is longer, shorter etc.

When measuring using a ruler or metre tape care should be taken to start at the correct end ie start at 0. Many children will ignore this to begin with.

When measuring strides it is useful to have a starting mark and a partner to mark the landing point. Usually the measurement is taken from the nearest point to the first mark ie the back of the foot, but this could be a good discussion point.

Balance scales are very useful at this stage to show comparisons.

One centimetre

Hi! Are you ready for some facts about measurement?  
Here goes!

This line is one centimetre long: —

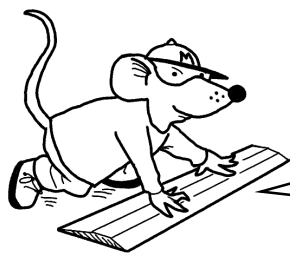
Here are some more lines which are one centimetre long.



One centimetre is a lot of writing for me!  
Did you know that you can shorten it to **1cm** ?

Draw 5 lines which are shorter than 1 cm.

Draw 5 lines which are longer than 1 cm.



### A metre

You need a metre ruler or a tape measure with centimetres on for this work.

100 centimetres make one metre.

$100 \text{ cm} = 1 \text{ m}$

Look around the room. Write down 5 things which are **longer than** a metre or 100 cm.

1.

2.

3.

4.

5.

Write down two things which are **less than** one metre.

1.

2.

Check with your measure to see if you are correct.

Comparing and measuring lines

You need a ruler with centimetres on it for this page.


**Measure the lines in centimetres.  
Write down which line is longest.**

1. a. \_\_\_\_\_ b. \_\_\_\_\_


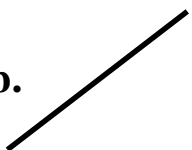
is longer.

2. a.  b.  c. \_\_\_\_\_

is longest.

3. a. \_\_\_\_\_ b.  c. \_\_\_\_\_

is longest.

4. a.  b.  c. \_\_\_\_\_

is longest.

Comparing and measuring lines

You need a ruler with centimetres on it for this page.

**Measure the lines in centimetres.  
Write down which line is longest.**

1. a. \_\_\_\_\_

b. \_\_\_\_\_

is longer.

2. a. |

b. \_\_\_\_\_

c. /

is longest.

3. a. /

b. \_\_\_\_\_

c. —

is longest.

4. a. \_\_\_\_\_

b. /

c. |

is longest.

Comparing lengths

Only write down the  
length of the longest lines  
to the nearest whole cm.



What is the length of the longest line to the nearest whole centimetre?

1.



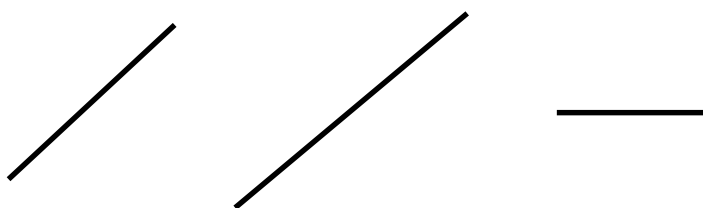
cm

2.



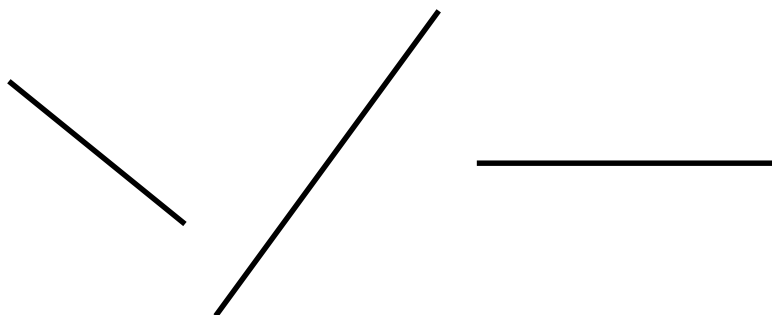
cm

3.



cm

4.



cm

Comparing lengths

Only write down the  
length of the longest lines.



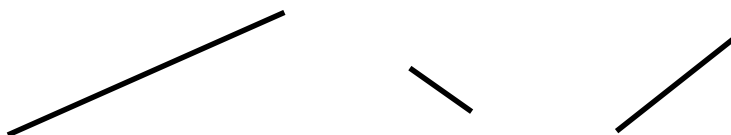
What is the length of the longest line to the nearest whole centimetre?

1.



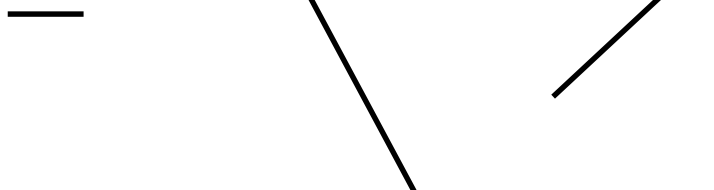
cm

2.



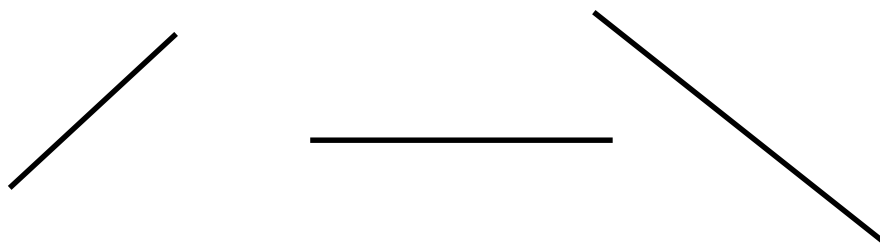
cm

3.



cm

4.



cm



### Measuring strides



You need a metre ruler or tape for this.

Measure the length of one stride.

A stride is one long step.

Write down your measurement in the chart below.

Now measure the stride of two of your friends.

Record their results.

My stride	centimetres
	centimetres
	centimetres

Who had the longest stride?

Who had the shortest stride?

**Measuring standing long jump**

You need a metre ruler or tape for this.

Measure the length of one jump off two feet from a standing position. ( you are not allowed a run up!)

This is called a standing long jump.

Write down your measurement in the chart below.

Now measure the standing long jump of two of your friends.

Record their results.

My standing long jump	centimetres
	centimetres
	centimetres

Who had the longest jump?

Who had the shortest jump?

**Heavier or lighter**

For this work you need a kilogram mass or scales which measure over 1 kg.

Find 3 things in the room which weigh more than 1 kilogram.

Write their names down on the chart.

If you can, check their weights on scales.

1.
2.
3.

Now find 5 objects which weigh less than 1 kg.

Write the names of the objects below.

If you can, check the weights on the scales.

1.
2.
3.
4.
5.

More or less

Might be a bit messy,  
this, so take care!  
You need a litre jug and  
lots of cups.



Find 3 containers which hold more than 1 litre.

Write their names down on the chart.

If you can, check to see if you can fill a litre jug from them.



1.
2.
3.



Now find 5 containers which hold less than 1 litre.

Write the names of the objects below.

If you can, check by pouring into a litre jug.



1.
2.
3.
4.
5.



**Answers****Page 5**

1. b      2. a      3. b      4. c

**Page 6**

1. a      2. c      3. a      4. a

**Page 7**

1. 3 cm      2. 2 cm      3. 4 cm      4. 5 cm to the nearest whole centimetre.

**Page 8**

1. 4 cm      2. 4 cm      3. 5 cm      4. 5 cm to the nearest whole centimetre.