



# MATHEMATICS



**N.S. Yr. 1 P.70**

**Word problems involving measurement**

## Equipment

Paper, pencil, ruler  
Counters, crayons, clock face useful.

# MathSphere

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## **Concepts**

This module involves simple measurements and comparisons, using length, mass and capacity.

Much more work on these concepts ought to be done on a practical basis, with children comparing simple lengths, heights etc, saying which is bigger or smaller, longer, shorter etc. Also with mass, comparing the mass of parcels wrapped up, using scales to balance objects etc should be done on a practical basis.

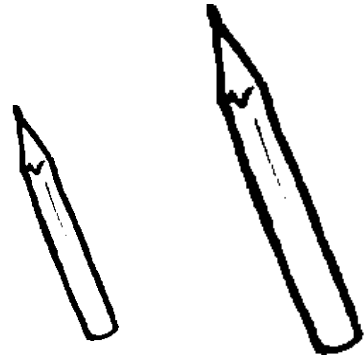
With capacity it is a good idea to fill various different jugs with water – many young children are convinced that the taller the jug the more it holds, and need a lot of practice to judge how much a container holds.

The time aspect of this module should be covered after the telling the time module.

Word problems – length

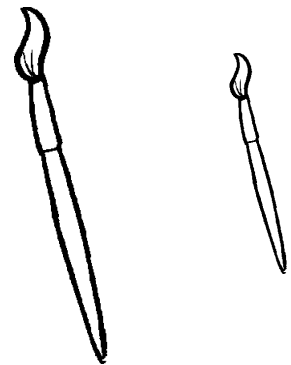
**Colour the longer pencil red.**

**Colour the shorter pencil blue.**



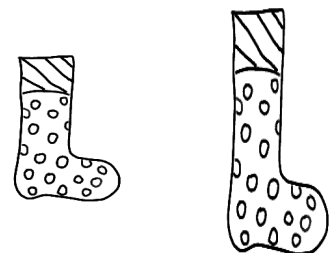
**Colour the longer paintbrush red.**

**Colour the shorter paintbrush blue.**



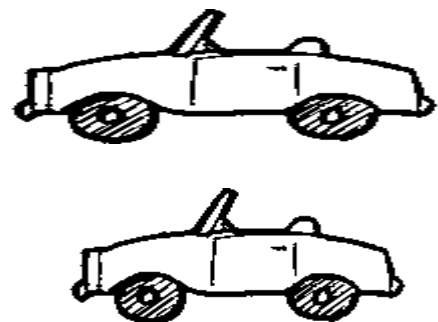
**Colour the longer sock green.**

**Colour the shorter sock yellow.**



**Colour the longer car blue.**

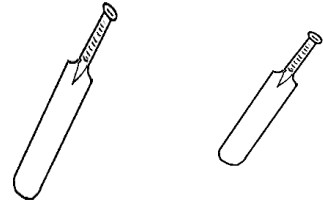
**Colour the shorter car red.**



**Word problems – length**

**Colour the longer bat blue.**

**Colour the shorter bat green.**



**Colour the taller drink red.**

**Colour the shorter drink blue.**



**Colour the longer shoe green.**

**Colour the shorter shoe red.**



**Colour the longer roll red.**

**Colour the shorter roll green.**



1. Draw a line **longer** than this line:



2. Draw a line **longer** than this line:



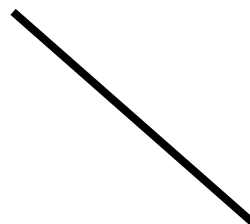
3. Draw a line **longer** than this line:



4. Draw a line **shorter** than this line:



5. Draw a line **shorter** than this line:



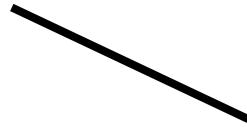
1. Draw a line **longer** than this line:



2. Draw a line **longer** than this line:



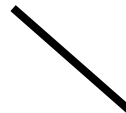
3. Draw a line **longer** than this line:



4. Draw a line **shorter** than this line:



5. Draw a line **shorter** than this line:





Subby jumped 6 centimetres. Addy jumped 5 centimetres.

1. Who jumped further, Subby or Addy?

2. How much longer was Subby's jump than Addy's?

3. How far did they jump altogether?



Divvy drew a line 7 centimetres long.

Addy's line was 3 centimetres long.

4. How much longer is Divvy's line than Addy's?

5. How long are the lines altogether?

6. How much would they need to add to Divvy's line to make it 15 centimetres long?



Subby jumped 5 centimetres. Addy jumped 6 centimetres.

1. Who jumped further, Subby or Addy?

2. How much longer was Subby's jump than Addy's?

3. How far did they jump altogether?



Divvy drew a line 9 centimetres long.

Addy's line was 2 centimetres long.

4. How much longer is Divvy's line than Addy's?

5. How long are the lines altogether?

6. How much would they need to add to Divvy's line to make it 14 centimetres long?

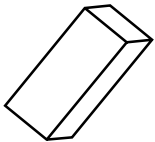


Word problems – length

Gita's pencil is 10 centimetres long.

Sam's pencil is 6 centimetres long.

1. How much longer is Gita's pencil than Sam's ?



Mary had a box 8 centimetres long.

Sue had a box 5 centimetres long.

2. How much longer is Mary's box?



Barry's house is 8 metres wide.

Bill's house is 11 metres wide.

3. How much wider is Bill's house?



Hi! I'm 10  
centimetres tall.

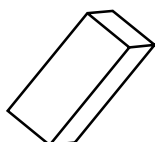
4. What would his height be if he was twice as tall?

Word problems – length

Pat's's pencil is 9 centimetres long.

Nina's pencil is 4 centimetres long.

1. How much longer is Pat's pencil than Nina's ?



Jake had a box 10 centimetres long.

Kim had a box 3 centimetres long.

2. How much longer is Jake's box?



Dan's house is 9 metres wide.

Gill's house is 11 metres wide.

3. How much wider is Gill's house than Dan's?

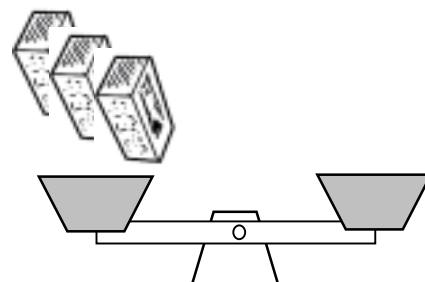


Hi! I'm 8  
centimetres tall.

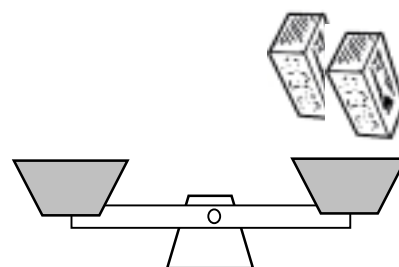
4. What would his height be if he  
was twice as tall?

Measuring mass

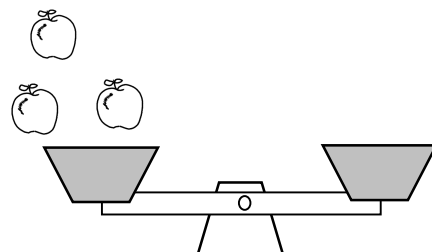
1. If 3 bricks were put on one side of the scales how many would you need to put on the other side?



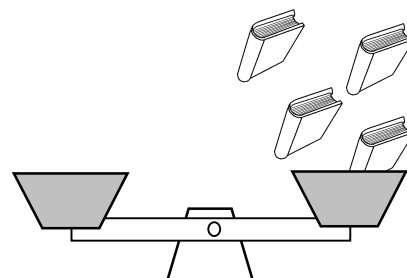
2. A brick weighs the same as two apples. How many apples are needed to balance two bricks?



3. An apple balances three sweets. How many sweets are needed to balance three apples?

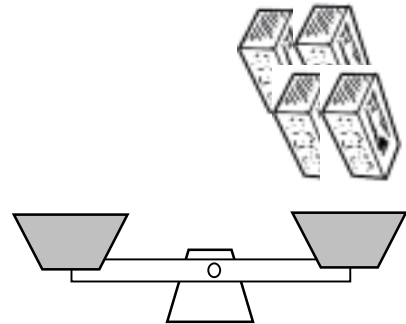


4. A book balances two apples. How many apples balance four books?

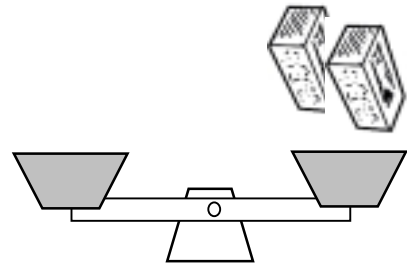


Measuring mass

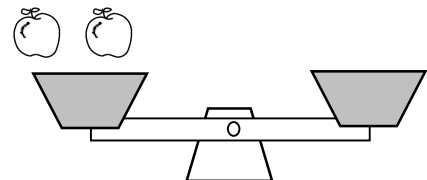
1. If 4 bricks were put on one side of the scales how many would you need to put on the other side?



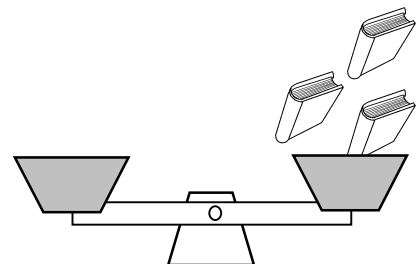
2. A brick weighs the same as four apples. How many apples are needed to balance two bricks?



3. An apple balances five sweets. How many sweets are needed to balance two apples?

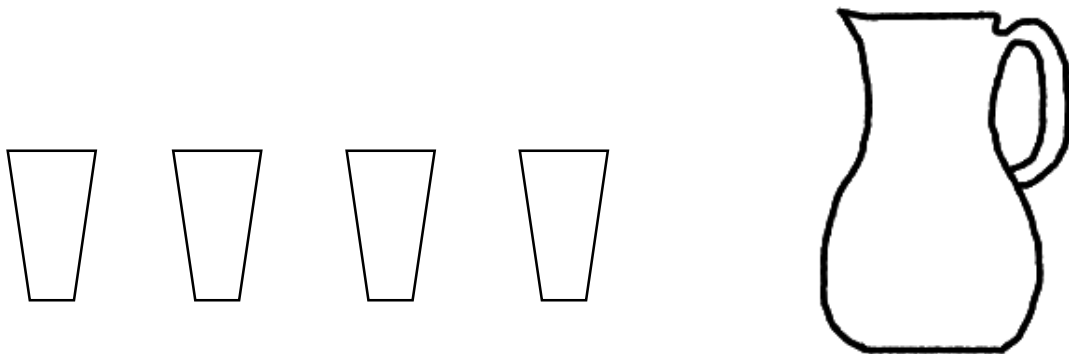


4. A book balances three apples. How many apples balance three books?

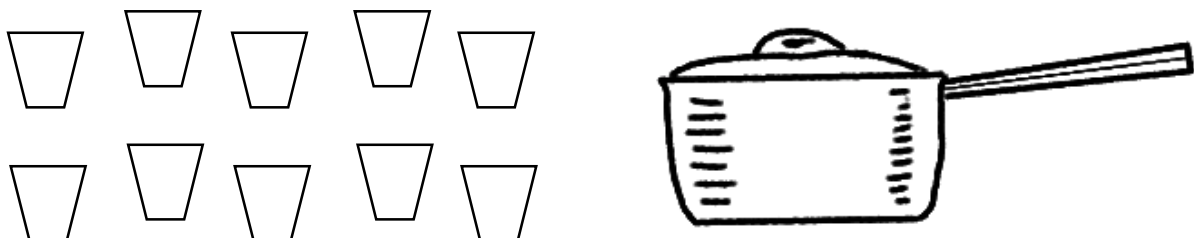


Measuring volume

1. A teapot holds five mugs of tea.  
How much would two teapots hold?



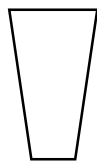
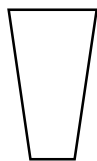
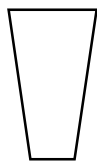
2. A jug holds four glasses of water.  
How much would two jugs hold?



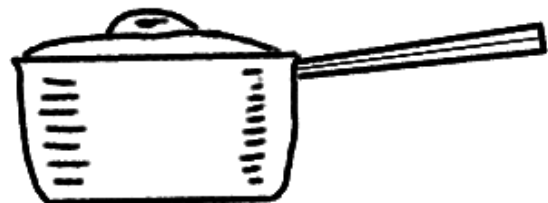
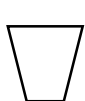
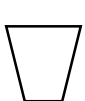
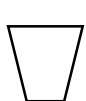
3. A pan holds 10 cups of water.  
How many cups would 3 pans hold?

Measuring volume

1. A teapot holds four mugs of tea.  
How much would two teapots hold?



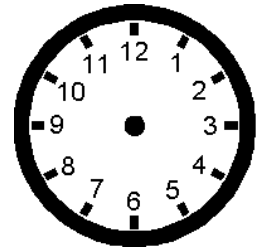
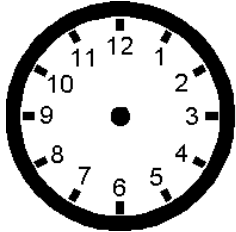
2. A jug holds five glasses of water.  
How much would two jugs hold?



3. A pan holds 10 cups of water.  
How many cups would 4 pans hold?

**Time problems**

Hi! Have a go at these time questions.



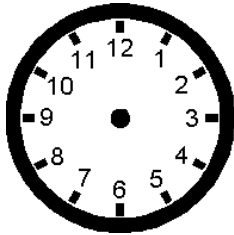
1. How long is it from 2 o'clock to 5 o'clock?

2. How long is it from 3 o'clock to 9 o'clock?

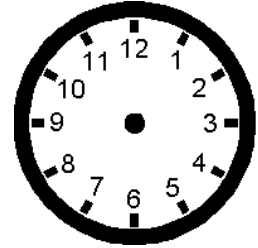
3. How long is it from 7 o'clock to 10 o'clock?

4. How long is it from 5 o'clock to 9 o'clock?

5. How long is it from 6 o'clock to 11 o'clock?

**Time problems**

Now, have a go at these time questions.



1. How long is it from 1 o'clock to 3 o'clock?

2. How long is it from 4 o'clock to 7 o'clock?

3. How long is it from 5 o'clock to 12 o'clock?

4. How long is it from 6 o'clock to 10 o'clock?

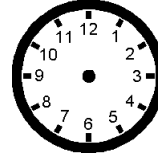
5. How long is it from 3 o'clock to 11 o'clock?



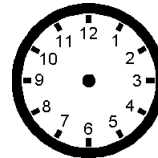
**Time problems**

**Draw the times on the clock faces:**

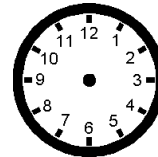
Nina got up at 7 o'clock.



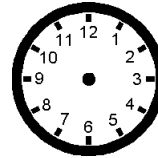
An hour later she went to school.



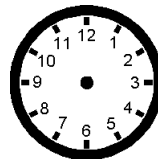
She had lunch at 12 o'clock.



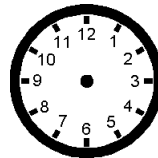
She went home at 3 o'clock.



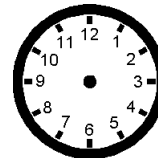
Two hours later she had tea.



She watched TV at 6 o'clock.



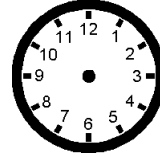
Two hours later she went to bed.



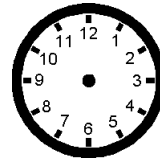
**Time problems**

**Draw the times on the clock faces:**

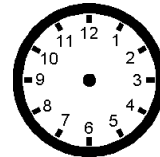
Asif got up at 8 o'clock.



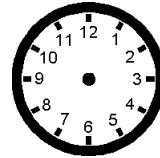
An hour later he had breakfast.



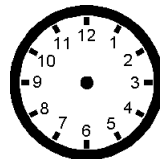
He watched TV at 10 o'clock.



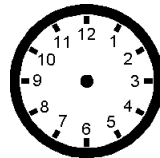
Two hours later he went shopping.



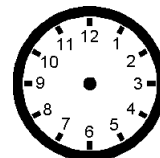
At 4 o'clock he went to a party.



Four hours later he went home.



He went to bed at 9 o'clock.



**Time problems**

1. How long is it from 1 o'clock to 5 o'clock?

hours

2. How long is it from 7 o'clock to 10 o'clock?

hours

3. It is 4 o'clock.

What time was it two hours ago?

o'clock

4. It is 6 o'clock.

What time was it three hours ago?

o'clock

5. It is 2 o'clock.

What time will it be in two hours time?

o'clock

6. It is 8 o'clock.

What time will it be in three hours time?

o'clock

7. It is 9 o'clock.

What time was it 5 hours ago?

o'clock

**Time problems**

1. How long is it from 2 o'clock to 7 o'clock?

hours

2. How long is it from 6 o'clock to 9 o'clock?

hours

3. It is 5 o'clock.

What time was it two hours ago?

o'clock

4. It is 10 o'clock.

What time was it three hours ago?

o'clock

5. It is 1 o'clock.

What time will it be in two hours time?

o'clock

6. It is 4 o'clock.

What time will it be in three hours time?

o'clock

7. It is 11 o'clock.

What time was it 4 hours ago?

o'clock