



MATHEMATICS



N.S. Yr. 4 P.86

Use all four operations to solve word problems involving length, mass or capacity.

Equipment

Paper, pencil, calendar.

MathSphere

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Concepts

Children should be familiar with the units concerned with length, mass and capacity:

Kilometres, metres, centimetres and millimetres

Kilograms, grams

Litres, millilitres

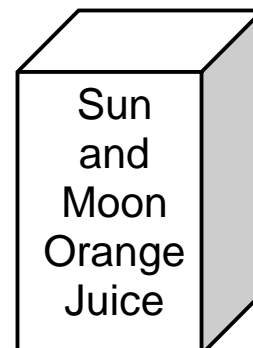
Miles, pints.

If they do not have a good working knowledge of these units, they will find the problems in this module difficult and should do more practical work before proceeding.

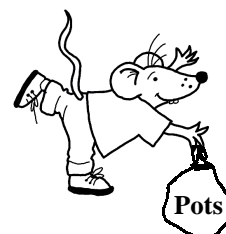
They should be able to understand the language used in problems and be able to extract the essential information. They should then be able to solve the problems and say how they solved them.

1. The east tower of a castle is 25 metres tall. The west tower is 17 metres tall.
How much taller is the east tower than the west tower?

2. Tom buys 10 litres of orange juice and Mary buys 7 litres.
How much do they buy altogether?
How much more does Tom buy?



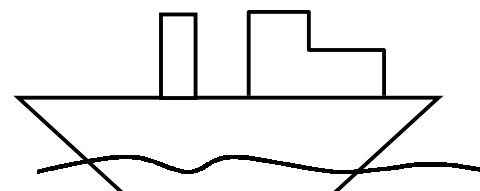
3. Addy buys 7 Kg of potatoes and Subby buys 9 Kg.
How much do they buy altogether?
How much less does Addy buy?



4. Peter looks in his garage for pieces of wood to make two shelves.
He finds the two pieces. One is 83 cm long and the other is 92 cm long.
The shelves needs to be 78 cm long.
How much does he need to cut off each piece?

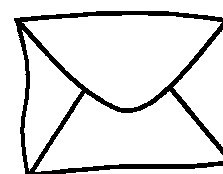
5. Joan has a jar of marbles. Each marble weighs 9 grams. There are 70 marbles in the jar.
How much do the marbles weigh together?

6. A ship uses 2 litres of fuel in a minute.
How much would it use in one hour?



7. A packet of paper weighs two kilograms.
How much does four and a half packets weigh?
8. Which is more, 600 grams or half a kilogram?

1. Franz goes on a 658 mile journey. He has travelled 67 miles.
How many more miles does he still have to go?
2. Heidi has to take one 5 millilitre teaspoon of medicine every day.
How many millilitres does she have in March?
3. A drinking glass holds half a litre of drink. Paulo has 43 litres of orange juice.
How many glasses can Paulo fill?
4. A company posts 2 000 letters, each weighing 7 grams.
How many grams do the letters weigh altogether?
How many kilograms is this?
5. A calculator weighs 45 grams.
How much does a box of 20 calculators weigh?
6. Kelly, Ben, Fran and Len are in a car rally team. Kelly drives 168 Km, Ben drives 150 Km, Fran drives 210 Km and Len drives 158 Km.
How many kilometres do they drive altogether?
7. Multy can run at two and a half metres a second.
How many metres can he run in 12 seconds?
How many seconds would it take him to run 20 metres?
8. Susan has a roll of ribbon which is 20m long.
She wants to cut pieces of ribbon half a metre long.
How many can she cut from the roll?
How long would 17 of these pieces be if they were laid down end to end?
9. Wendy buys 4 pints of milk a day.
How many pints does she buy in two weeks (including the weekends) ?
How many pints would she buy in August?
How many pints would she buy in a leap year?
10. Divvy is watching a snail slide along a path.
It moves 60 millimetres in 20 seconds.
How many millimetres does it move in one second?



But did you know I can do it on my hands?



Now you know what I do in my spare time!



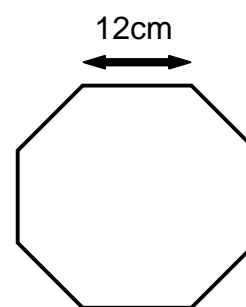
Snail

1. Mrs Patel is making cakes for her children. Each cake weighs 20 grams.
Mrs Patel has 700 grams of cake mixture.
How many cakes can she make?
How much would 15 of these cakes weigh?

2. Chloe has a box of 30 pencils. Each pencil is 17cm long.
How far would the pencils stretch if she laid them end to end?

3. A swimming pool is 26 metres long. John swims 20 lengths.
How far does he swim altogether?
Is this **more** or **less** than half a kilometre?

4. Each side of a regular octagon is 12 cm long.
What is the perimeter of the octagon?
Is this **more** or **less** than the perimeter of a rectangle 23 cm long and 24 cm wide?



5. The distance from Hedge End to Primrose Hill is 4 500 metres.
How many kilometres is this?

6. 200 grams of sweets are shared equally between 5 children.
How many grams do they have each?
One child eats a quarter of her sweets.
How many grams does she have left?

7. At a party for eight children these things were eaten:
320 grams of cakes
600 grams of sausage rolls
560 grams of biscuits.

How much would have been eaten if there had been sixteen children at the party?
How much would have been eaten if there had been twenty four children at the party?

That's the sort of party I like!



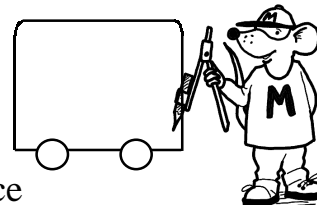
8. Here is a recipe for strawberry milkshake:

Three tablespoons of strawberry powder with 400 millilitres of milk.

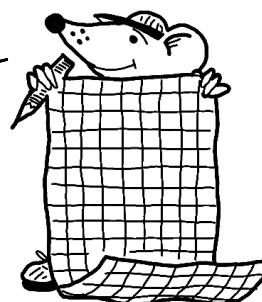
Make this into a recipe for 6 strawberry milkshakes.

1. An orange weighs about 170 grams.
How much would 20 oranges weigh?
2. A bottle of sauce holds 270 ml.
How many spoonfuls could this fill if each spoon holds 9 ml ?
3. One turnip weighs 250 grams. Another weighs one and half kilograms.
How many times heavier is the larger turnip than the smaller turnip?
4. Draw straight lines with the following lengths:
25 mm, 45 mm, 60 mm, 75mm and 100mm.
Get a friend to check you have drawn them accurately.
5. A bus can travel 45 kilometres in one hour.
How far can it travel in 4 hours?
How far can it travel in half an hour?
6. What is the difference in length between a piece
of wood 175 cm long and another piece 193 cm long?
7. A potato weighs 130 grams. A parsnip weighs 210 grams.
How much more does the parsnip weigh than the potato?
How much do they weigh together?
8. A rectangle is four and a half centimetres long and three and a half
centimetres wide.
What is its perimeter?
9. How many lengths of wire 45 cm long could be cut from a roll four and a
half metres long?
10. A boat is 12 metres in length. Addy makes a model of the boat so the
length is one tenth of the real length.
How long is the model?

Sorry, you caught me
drawing the bus. Can you
come back in ten
minutes?



Here's the plans,
guys!



Answers**Page 3**

1. 8 m 2. 17 litres 3 litres 3. 16 kg 2 kg 4. 5cm and 14 cm
5. 630 g 6. 120 litres 7. 9 kg 8. 600 g

Page 4

1. 591 miles 2. 155 ml 3. 86 glasses 4. 14 000 g 14 kg 5. 900 g
6. 686 km 7. 30 m 8 sec 8. 40 pieces 8¹/₂ m
9. 56 pints 124 pints 1 464 pints 10. 3 mm

Page 5

1. 35 cakes 300 g 2. 510 cm 3. 520 m, more 4. 96 cm, more (94 cm)
5. 4¹/₂km 6. 40 g 30 g
7. 640 g cakes, 1 200 g sausage rolls, 1 120 g biscuits
960 g cakes, 1 800 g sausage rolls, 1 680 g biscuits
8. 18 tablespoons strawberry powder, 2 400 ml milk

Page 6

1. 3 400 g 2. 30 spoonfuls 3. 6 times heavier 4. n/a
5. 180 km 22¹/₂ km 6. 18 cm 7. 80 g 340 g
8. 16 cm 9. 10 10. 120 cm