

Measure Problems



Length:

- Sam is trying to swim 200 metres. So far, he has swum 90 metres.
How much further does he need to swim?
- Fatema is 143cm tall.
Her Mum is 180cm tall.
What is the difference between their heights?
- Some children are growing a sunflower. On Friday it was 28cm tall.
By Monday, it had grown another 6cm.
How tall was it on Monday?
- Every year, Peter's Dad measures how tall Peter is.
This year, his height is 132cm. Last year it was 124cm.
How much had Peter grown in a year?
- Some children are doing a sponsored walk. They are going to walk 1km.
After 20 minutes, they had walked 650 metres.
How much further do they need to walk?
- Some children measured the length and width of their school hall.
The hall was 16.5 metres long.
That was 7.5 metres longer than the width.
What was the width of the hall?
- Some children calculated how far they walked from their house to school.
Alex said: 'I walked 820m from my house to school'
Jan said: 'I walked 200m less than Alex.'
How far did Jan walk?
- In a snail race, the winning snail travelled 12.5cm in an hour.
The snail that came 2nd had travelled 4cm less.
How far had that snail travelled?

Mass:

- Meera has a mass of 26kg.
Jasmine has a mass 3kg less than Meera.
What is Jasmine's mass?
- Some children found the mass of two potatoes.
The heaviest one had a mass of 240 grams.
The lightest had a mass of 155 grams.
What was the difference between their masses?
- Harry's mum had a 500g bag of pasta.
She cooked 230g.
What was the mass of the pasta left in the bag?

Measure Problems



- A new born baby had a mass of 3.5kg.
A month later he had a mass of 4kg 150g.
By how much had the baby's mass increased?
- Margaret had a 1kg bag of sugar.
She used 150 grams to make a cake.
How many grams of sugar were left?
- A packet of carrots had a mass of 2.5kg.
A packet of onions had a mass of 750 g.
What was their mass altogether?
- Some children found the mass of two books.
The first had a mass of 325 g.
The second had a mass 40 g less.
What was the mass of the second book?
- My Dad has a mass of 92 kg.
He says: I want to be 75 kg.
How many kilograms does he need to lose?

Volume and Capacity:

- To have a bath uses about 50 litres of water.
To have a shower uses about 35 litres of water.
How much water would I save if I had a shower instead of a bath?
- I have 2 bottles of orange juice.
One has 500ml of juice in it.
The other has 1.5l of juice in it.
How much juice have I got altogether?
- Sam had a 2 litre bottle of lemonade.
He poured out 250ml.
How many millilitres of lemonade were left in the bottle?
- Lesley's paddling pool has a capacity of 800 litres.
She has put 550 litres of water into the pool.
How much more does she need to fill the pool?
- Sally bought a 5 litre tin of paint. She used 3500ml.
How much paint did she have left over?
- Gemma and Kelly worked out how much they drank in a day.
Kelly drank 3 litres 500ml.
Gemma drank 4 litres 250ml.
How much more than Kelly did Gemma drink?
- Jamal measured how much he drank over the weekend.
On Saturday he drank 4.5 litres.
On Sunday he drank 3 litres 400 millilitres.
How much had he drunk altogether?

Measure Problems



- David has 2 cans of drink. Each one holds 750ml.
How much has he got altogether?

Volume and Capacity (mixed multiplication and division)

- I've got a 20 litre bag of compost.
How many flower pots can I fill if they each hold $\frac{1}{4}$ litre of compost?
- How many 5ml spoonfuls of medicine can I get from a 75ml bottle of medicine?
- My shampoo bottle holds 400ml of shampoo.
If I use 20ml each time I wash my hair, how many washes will I get from the bottle?
- I've got 1litre of orange juice.
I want to divide it equally between four (or two) children.
How much will they each get?
- I need 200ml of orange squash to make up 1litre of drink.
I need to make 5 litres.
How much squash do I need?
- The recipe says I need 125ml of milk. I am making double the amount.
How much milk do I need?
- The cheese sauce recipe says I need 500ml of milk.
I only need to make half the amount of sauce.
How much milk will I need?

Length (mixed multiplication and division)

- The swimming pool is 20m long.
I swam 5 lengths.
How many metres did I swim?
- The swimming pool is 25m long.
How many lengths do I need to do to swim 200m?
- I need 1m 50cm of material to make a curtain.
I need to make four of them.
How much material do I need to buy?
- How many 50cm lengths of ribbon can I cut from a reel of 5m?
- I'm making school skipping ropes which are 2 metres long.
I need to make thirty-five ropes.
How much rope do I need to buy?
- Dad's got a vegetable garden which is 20m long.
He wants to divide it into four equal lengths.
How long will each part be?

Measure Problems



Mass (mixed multiplication and division)

- I need 150g butter to make one cake.
How much butter will I need to make four cakes for the school fete?
- Rice comes in 1kg packets.
One portion of rice is 50g.
How many portions can I get from one packet?
- A recipe for 8 people says I need 100g sugar.
I want to make it for four (or two) people.
How much sugar will I need?
- These are the ingredients for making 18 small cakes.
 - 125g butter
 - 110g sugar
 - 2 eggs
 - 110g plain flour
 - 1 teaspoon baking powder (or 5ml)
 - 1 teaspoon grated orange rind (or 5ml)
 - 1 tablespoon orange juice (or 15ml)I need to make enough for 36 people.
How much of each ingredient do I need?
- My cat has a mass of 3kg.
My dog is four times heavier.
What is the mass of my dog?
- I bought 500g of sweets.
I want to divide them equally between four children.
How much will they each have?
- I've got 5kg of compost. Each flower pot needs 250g to fill it.
How many pots will I be able to fill?