Mathematics

Proportion in context
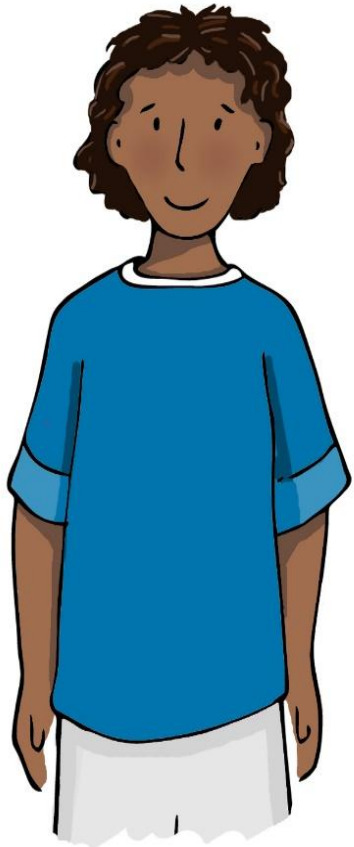
Downloadable resource.

Dr Rim Saada

Try this

Zaki wants to make enough pie for **2** people.

Work out the quantities of each ingredient that Zaki will need to use.

Yasmin is cooking for **6** people.

Work out the quantities of each ingredient that she will need.

Ingredients for bacon and egg pie

Serves 4

200 g puff pastry

2 tbsp oil

200 g bacon

2 onions

2 eggs

160 ml cream

40 g cheese

Independent task

1) This is a recipe for fruit punch for six people:

   Jake made fruit punch for ten people. How many millilitres of orange juice did he use?

2) Philippa went on holiday to Sweden. The exchange rate is £1 to 1.2 euros (€). She exchanges £550 into euros.

a) How many euros should she receive?

Philippa returned home with 78 euros left. The new exchange rate was £1 to 1.25 euros.

b) How many pounds did she get back?

> **Fruit punch**
>
> 300 g chopped pineapple
>
> 1500 ml orange juice
>
> 750 ml apple juice

Explore

The price of posting a parcel is proportional to the mass of the parcel.
What does this mean?

Calculate the cost of sending the parcels below:

£...   £...   £6   £...

100 g   500 g   1 kg   2.5 kg

Draw a graph to represent this information.
What shape will the graph be? Why?

Write an equation linking the mass of the parcel, m kg,
to the price, £ P.