

Mathematics

## **Proportion problems**

**Solve problems involving the relative size of two quantities**

## **Independent Task**

Miss Parsons



## Question 1

Makes 20 cookies

100 g butter

125 g caster sugar

1 large egg

5 ml vanilla extract

200 g flour

100 g chocolate



- a) Scale the ingredients to make:
- 10 cookies
  - 60 cookies
  - 1 cookie
- b) How many cookies can be made with 625 g of caster sugar? Explain how you know.



## Question 2

### Makes 6 bowls of soup

2 carrots  
2 sticks of celery  
2 medium onions  
2 cloves of garlic  
2 stock cubes  
900 g of tomatoes  
6 large tomatoes  
 $\frac{1}{2}$  a bunch of basil



- a) Scale the ingredients to make:
- 30 bowls of soup
  - 120 bowls of soup
- b) How many bowls are made from 2.7 kg of tomatoes? Explain how you know.



### Question 3

Makes 2 bracelets

50 cm elastic

20 blue beads

10 red beads

10 purple beads

6 star beads



- a) How many bracelets can I make if I have 42 star beads?
- b) How many of each other item would I need?



## Question 4

### Recipe for 12 cakes

200 g caster sugar  
115 g margarine  
200 g self raising flour  
2 eggs  
2 tsp vanilla extract  
2 tsp baking powder  
120 ml milk



Fatma wants to make 120 cakes.

She has looked in her cupboard and found a bag of flour. It is half full, and originally contained 3 kg of flour.

Does Fatma have enough flour to make 120 cakes? If not, how many cakes could she make?

