

# Use ratio to express relationships

Mathematics

Miss Parsons



## Question 1

Janiya draws a picture of a caterpillar. She says,

‘My picture is in the ratio of 5:1. Every 5 cm of my picture represents 1 cm of the real caterpillar.’

Her picture is 35 cm long. How long is the real caterpillar.



## Question 2

Alex is planting tulips in the school garden. He has bulbs for red and purple tulips, and for every 5 red tulips he plants 3 purple tulips.

The ratio is 5 : 3.

Alex plants 15 purple tulips. How many red tulips does he plant?



### Question 3

Becca is making chocolate chip cookies.

For every 3 milk chocolate cookies she makes, she makes 2 white chocolate cookies.

- a) What is the ratio of milk chocolate to white chocolate cookies?
- b) If she makes 12 white chocolate cookies, how many cookies does she make altogether? Explain how you know.



## Question 4

Pippa has a bag of sweets.

The ratio of fizzy sweets to sour sweets is 1 : 2.

Vicki also has a bag of sweets. The ratio of fizzy sweets to sour sweets is 2 : 3.  
Each bag has 30 sweets. Who has more fizzy sweets? How do you know?

