

Practise

P 1

Complete the sentences.



For every two blue flowers there are pink flowers.
 For every blue flower there are pink flowers.

P 2

Use cubes to help you complete the sentences.



For every yellow cubes, there are blue cubes.
 For every 8 yellow cubes, there are blue cubes.
 For every 1 blue cube, there are yellow cubes.

P 3

Write down the ratio of:

- Bananas to strawberries
- Blackberries to strawberries
- Strawberries to bananas to blackberries
- Blackberries to strawberries to bananas

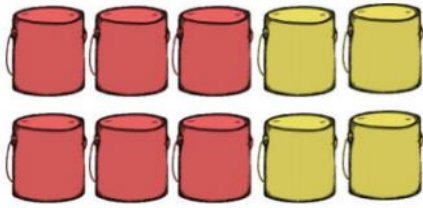


P 4

1:2 3:5 1:2 1:2:5
 4:8 12:20 7:14 4:8:20

P 5

Tick the correct statements.



- There are two yellow tins for every three red tins. ✓
- There are two red tins for every three yellow tins.
- The ratio of red tins to yellow tins is 2 : 3
- The ratio of yellow tins to red tins is 2 : 3 ✓

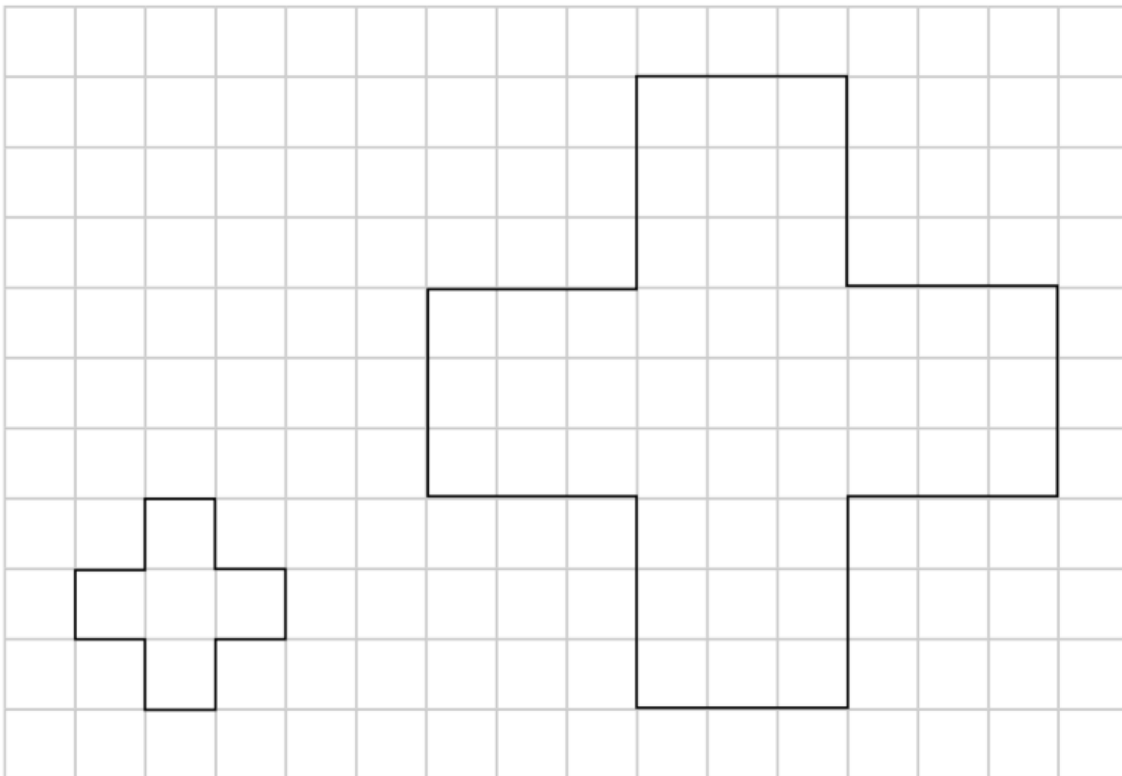
Explain which statements are incorrect and why.

These statements are correct because although there are 4 yellow tins, the ratio could be written as

4:6. Both sides can be divided by 2, giving a ratio of 2:3

P 6

Identify the scale factor that been used to enlarge this shape:



3

P 7

Copy these rectangles onto squared paper then draw them double the size, triple the size and 5 times as big.



Double: height = 2 squares, width = 6 squares

Triple: height = 3, width = 9

5 times: height = 5, width = 15

Double: height = 4 squares, width = 7 squares

Triple: height = 6, width = 10.5

5 times: height = 10, width = 17.5

Double: height = 6 squares, width = 4 squares

Triple: height = 9, width = 6

5 times: height = 15, width = 10

P 8

In a pack of balloons, there are 3 different colours: red, blue and green. The ratio is 5:2:1 (red: blue: green). If there are 8 blue balloons in the pack, how many balloons are there in total?

If the ratio is 5:2:1 and we have 8 blue balloons, we have multiplied the ratio by 4. The new ratio is 20:8:4. Therefore the total is $20 + 8 + 4 = 32$.

P 9

At a party there are three sorts of drinks: orange, lemonade and cherry. The ratio of the drinks is 3:2:1 (orange:lemonade:cherry). If there are 12 glasses of orange, how many glasses of drink are there altogether?

If the ratio is 3:2:1 and we have 12 glasses of orange, the ratio has been multiplied by 4. The new ratio is 12:8:4. Therefore the total is $12 + 8 + 4 = 24$.

P 10

Dev makes soup using 3 mushrooms for every 2 tomatoes. He uses 15 mushrooms. How many tomatoes does he use? (First of all write the ratio and then write the number of tomatoes that he uses).

The ratio of mushrooms to tomatoes is 3:2

If we have 15 mushrooms, the ratio is multiplied by 5. Therefore the new ratio is 15:10 so he uses 10 tomatoes.