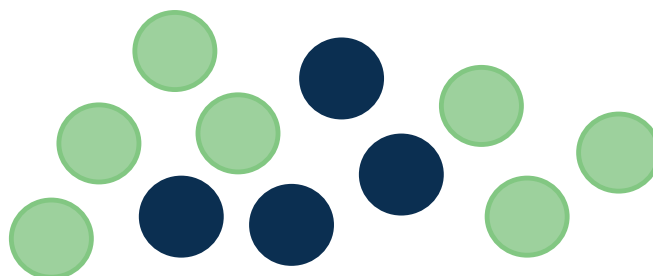


# Ratio

## Question 1

Here are some green and blue counters. Fill in the gaps in the sentences.



For every \_\_\_\_\_ blue counters there are \_\_\_\_\_ green counters.

The ratio of blue counters to green is \_\_\_\_\_.

The \_\_\_\_\_ of \_\_\_\_\_ counters to blue is \_\_\_\_\_.

four

seven

ratio

4:7

green

7:4



# Ratio

## Question 2

A necklace is made using a repeating pattern of green and blue beads.



Can you complete the table to show the equivalent ratios of green to blue beads?

Green beads	Blue beads	Total beads
1	3	4
2	6	8
3	9	
		16
	15	20
8		
10		40
		80

Complete this sentence:

For every green bead there are \_\_\_\_\_ blue beads.

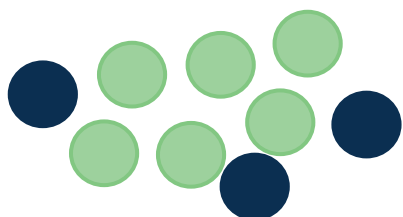
The ratio of green beads to blue beads is \_\_\_\_\_:\_\_\_\_\_.



# Ratio

## Question 3

Write out the ratio of blue counters to green in these four piles.



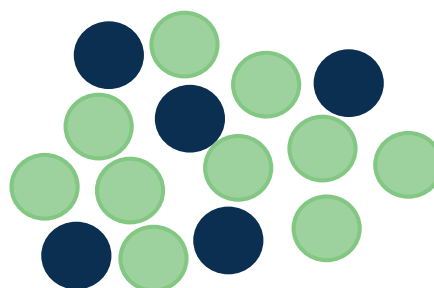
a  :



b  :



c  :



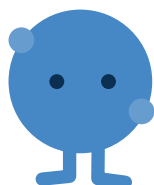
d  :

Which two piles have the same ratio?



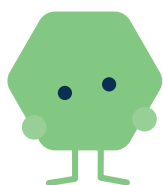
# Ratio

## Question 4



The proportion of blue-eyed children to non blue-eyed children in the class is 3:5

There are 9 blue-eyed children in the class.  
How big is the class?



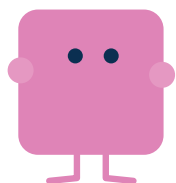
Ada has 66 counters in 3 different colours. She decides to split them between three different-coloured piles.

The ratio is 1:2:8

How many counters are in each pile?



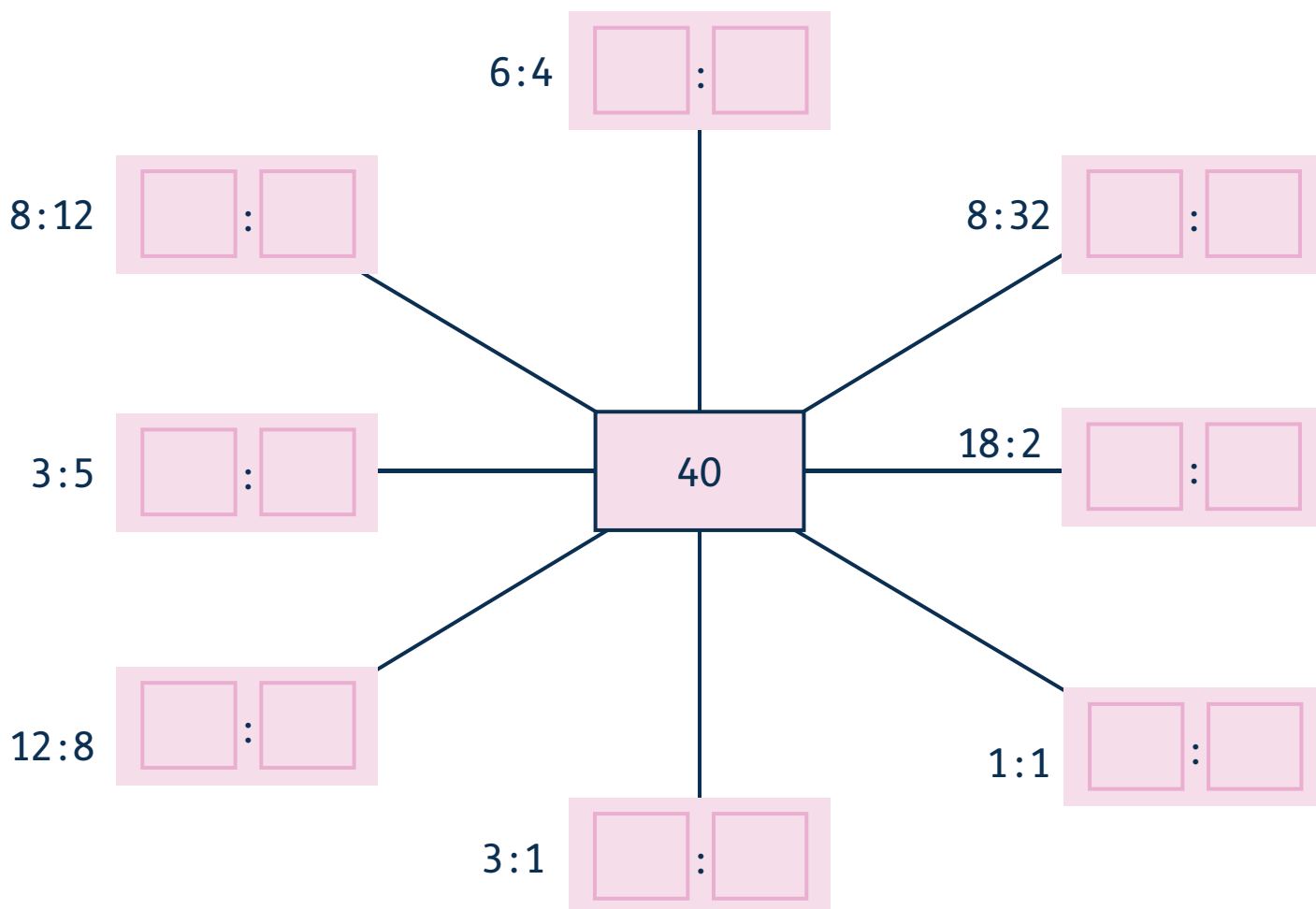
# Ratio



A fruit salad recipe serves six and needs 2 bananas. Jackson wants to make fruit salad for 24 people. How many bananas should he buy?

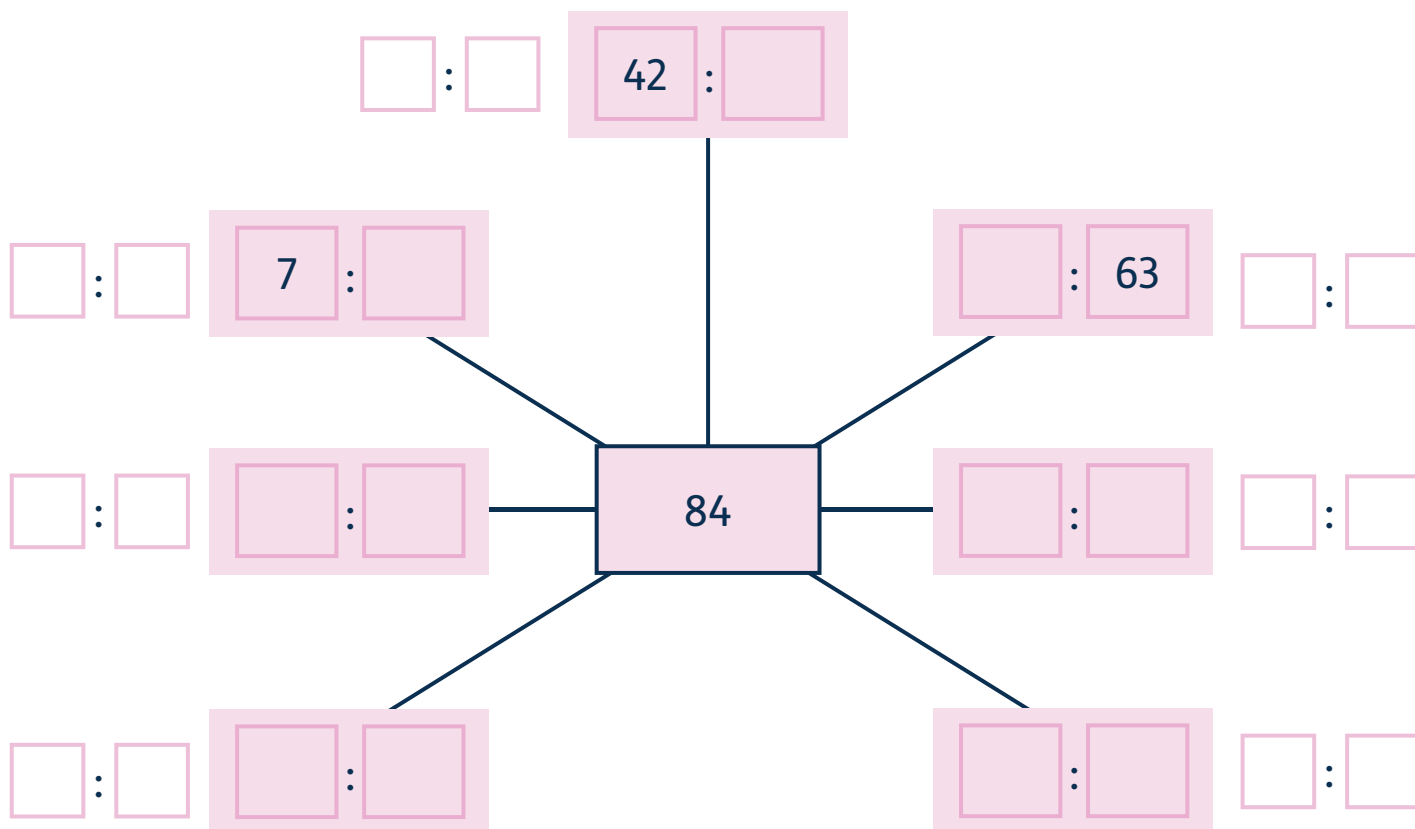
## Question 5

**a** Divide 40 into the given ratios.



# Ratio


**b** Can you complete this example?

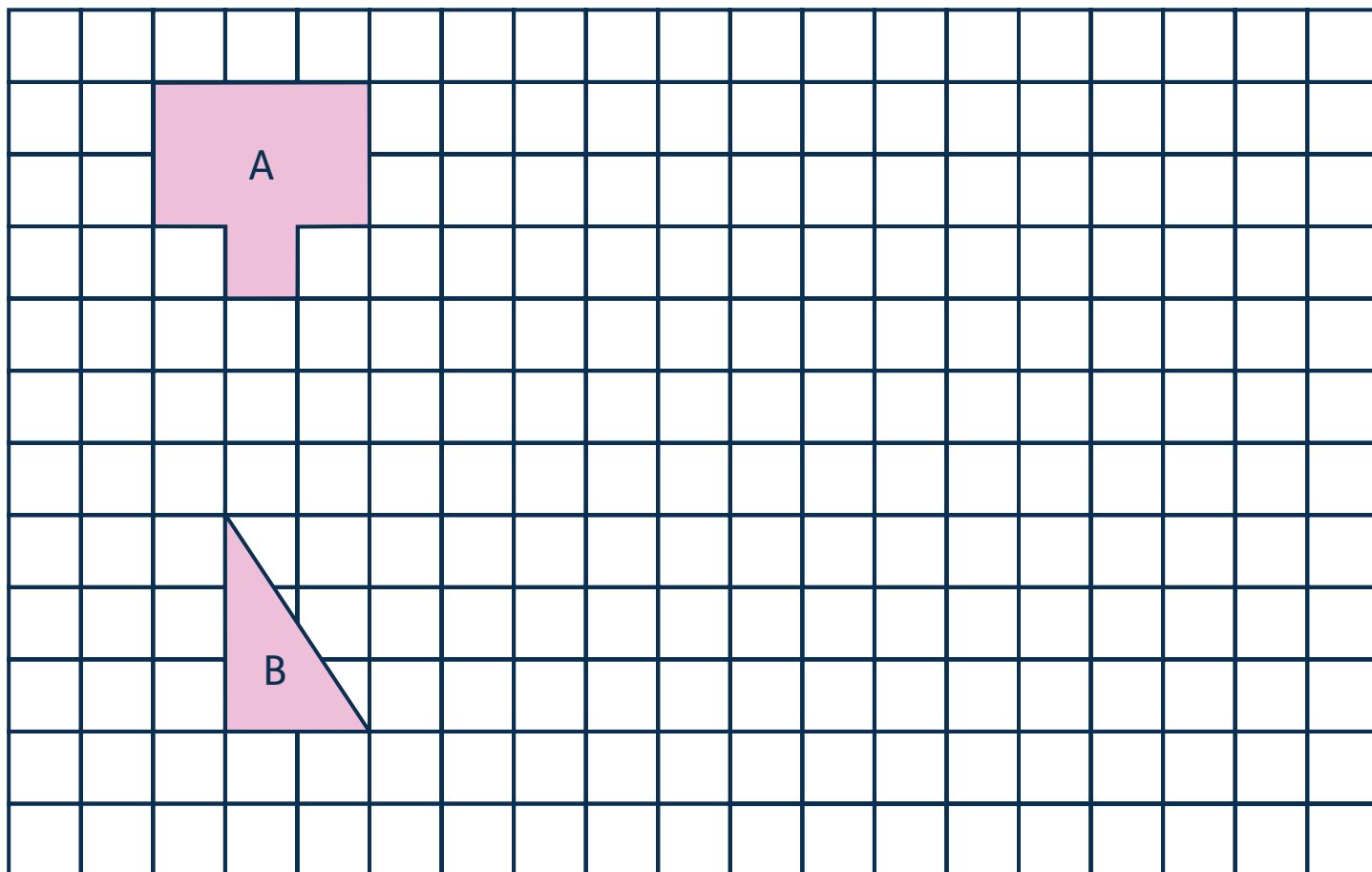


# Ratio

## Question 6

Here are some shapes on a grid. Each square on the grid represents  $1 \text{ m}^2$

 =  $1 \text{ m}^2$



- a Enlarge Shape A by a scale factor of 2.
- b Enlarge Shape B by a scale factor of 3.
- c What are the areas of your two new shapes?



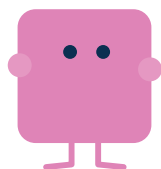
# Ratio

## Question 7

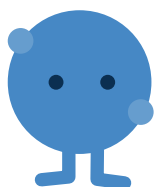
The toy shop sells dolls house furniture. Work out the missing lengths for the real and model furniture.

Item	Scale	Real height	Model height
Table	1 cm to 24 cm		3.5 cm
Grandfather clock	1 cm to 25 cm	2 m	
Stool		60 cm	60 mm
Dining chair		130 cm	16.25 cm
Garden shed	1 cm to 10 cm	2.5 m	
Vase	1 cm to 12 cm		36 mm

## Question 8



On a walker's map,  
1 cm = 0.5 km. What is  
this scale as a ratio?



On a town plan, a park is  
3.5 cm long and 4.2 cm  
wide. The scale of the  
plan is 1 cm = 500 m.

What is the area of the  
actual park in km<sup>2</sup>?