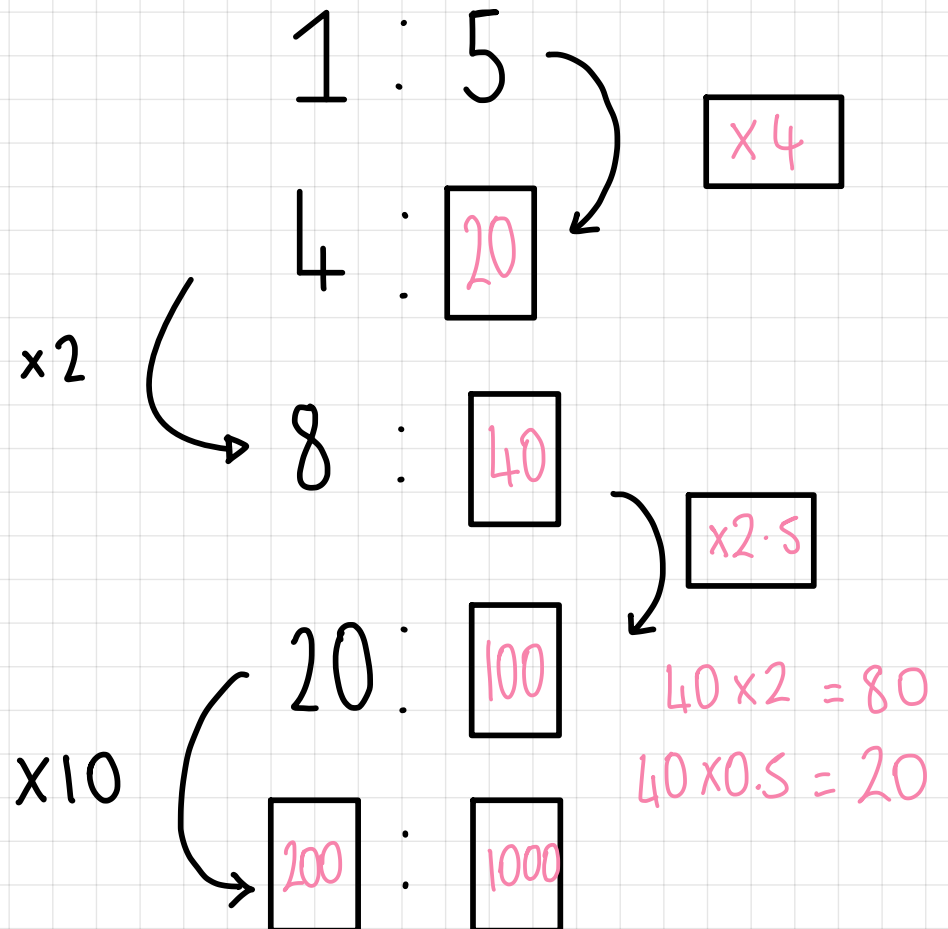
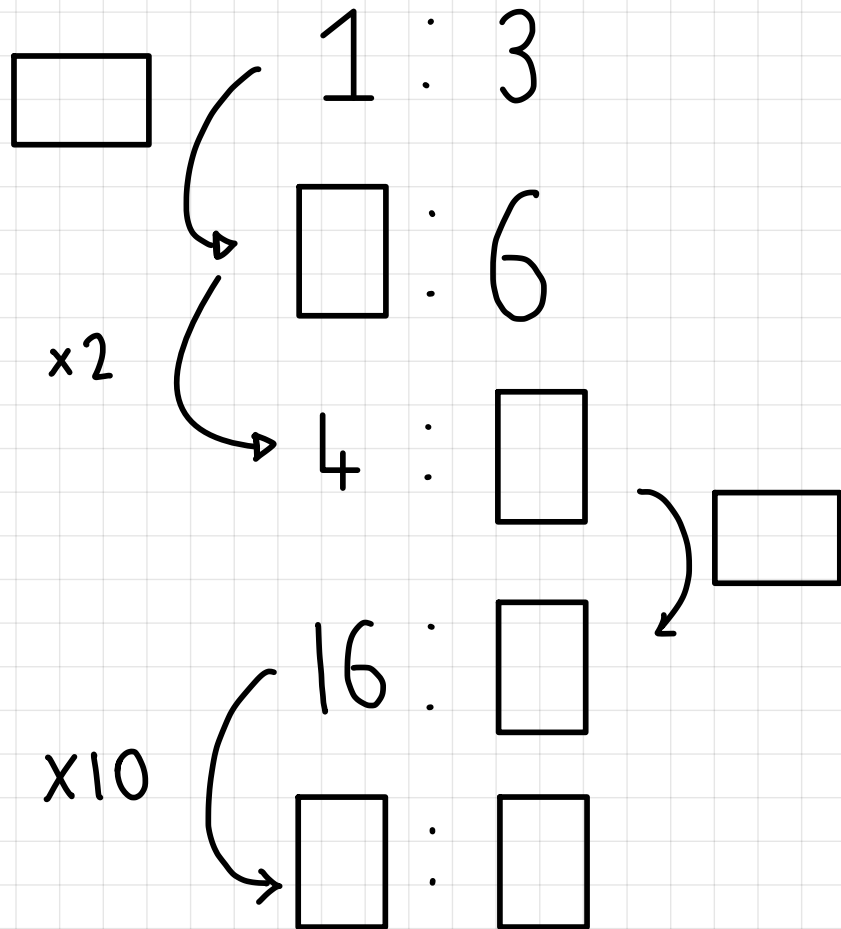
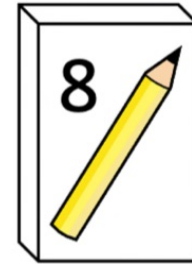


# 1.N RATIOS

Complete the following:



Pencils come in boxes of 8



How many pencils are there in 4 boxes?

$$8 \times 4 = 32$$

Tom buys 72 pencils.

How many boxes does he buy?

$$72 \div 8 = 9$$

1 A cake tray holds 6 muffins.

a) For every 1 tray, there are  $\boxed{6}$  muffins.

b) The ratio of trays to muffins is  $\boxed{1} : \boxed{6}$

c) For every  $\boxed{6}$  muffins, there is  $\boxed{1}$  tray.

d) The ratio of muffins to trays is  $\boxed{6} : \boxed{1}$

e) How many muffins would 2 trays hold?  $12$

f) How many muffins would 3 trays hold?  $18$

g) How many trays would be needed for 30 muffins?  $5$



2 A cake mixture has 1 part flour to 1 part sugar.

a) If 200 g of flour is used, how much sugar is needed?

b) If 100 g of sugar is used, how much flour is needed?

c) What do you notice about your answers?

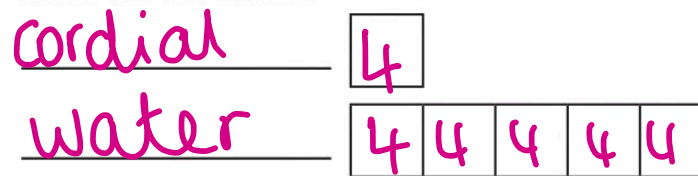
a) 200g

b) 100g

c) 1:1 same amount of both

3 Juice is made using cordial and water in a ratio of 1 : 5

a) Label the bar model.



Explain your answer to a partner.

b) Use the bar model to work out how much juice can be made using 20 ml of cordial.  $120\text{ml}$

c) Use a bar model to work out how much juice can be made using 20 ml of water.  $24\text{ml}$

d) What is the same and what is different about parts b) and c)?

Example

Rosie and Dora share some money in the ratio 1 : 3

If Rosie gets £60, how much does Dora get?

Rosie

£60

$$60 \times 3 = 180$$

Dora

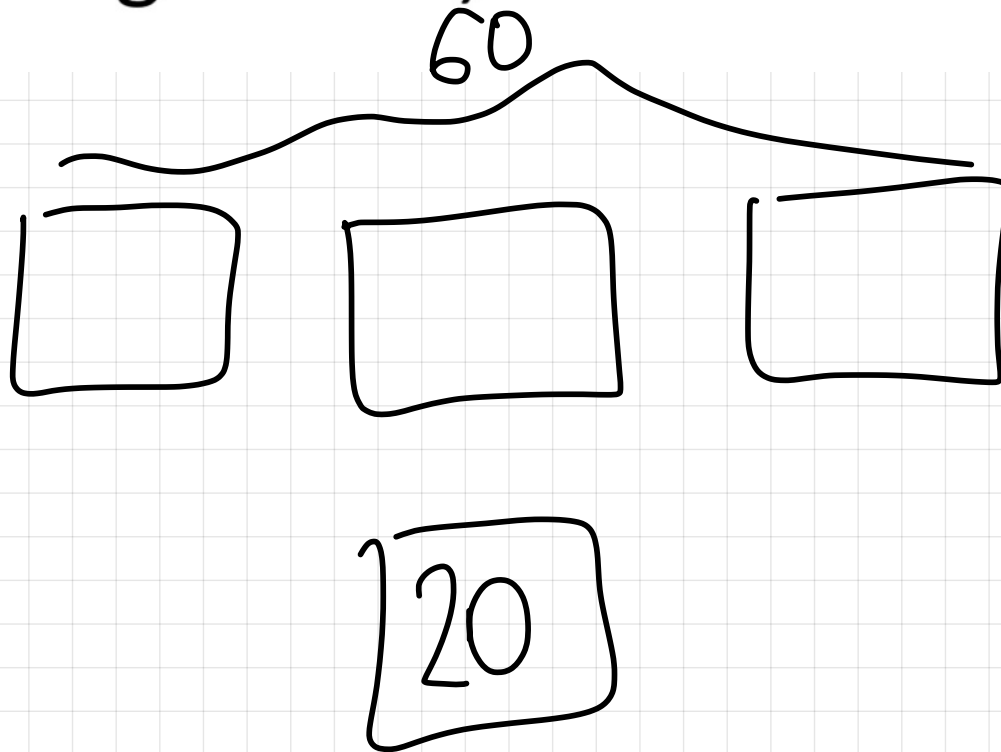
£60

£60

£60

Rosie and Dora share some money in the ratio 1 : 3

If Dora gets £60, how much does Rosie get?





**5** Use your preferred method to answer the question.

The ratio of children to adults in a supermarket is 1 : 5

There are 15 children in the supermarket.

How many adults are in the supermarket?

**6** For every 3 monkeys in a zoo, there is 1 tiger.

**a)** If there are 150 tigers, how many monkeys are there?

**b)** If there are 150 monkeys, how many tigers are there?

**c)** If there are 300 monkeys, how many tigers are there?

**7** A model of a house is made using a scale of 1 : 32

**a)** Which part represents the model of the house?

How do you know?

**b)** If the house is 8 m tall, how tall will the model of the house be in centimetres?