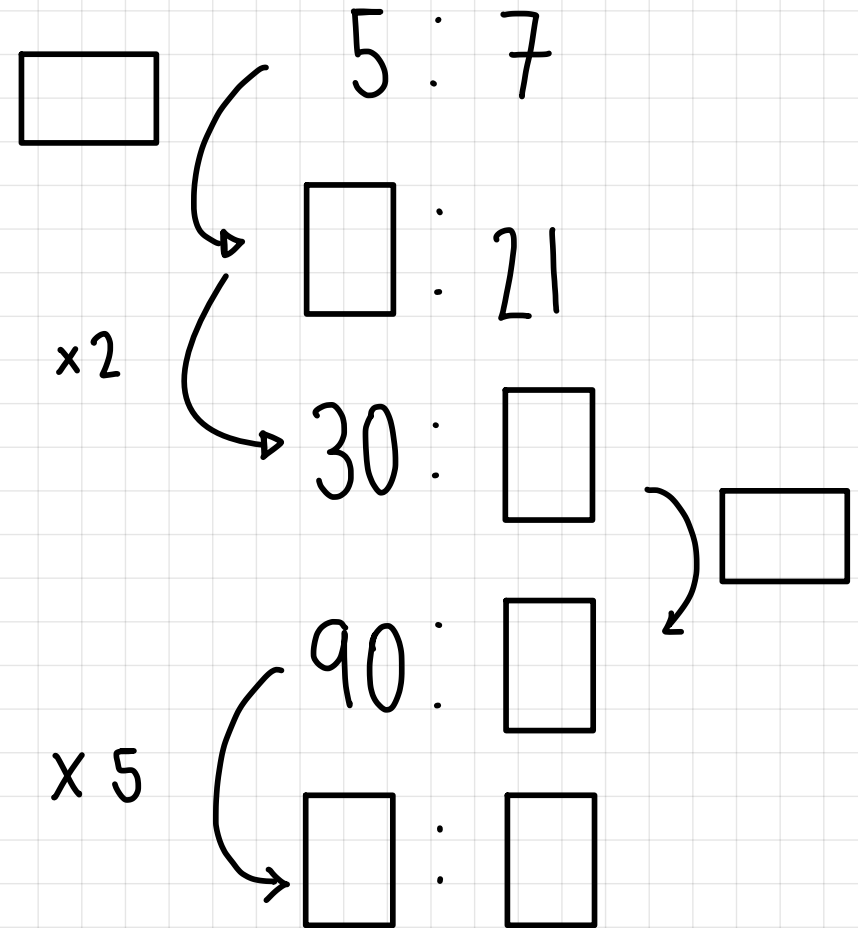
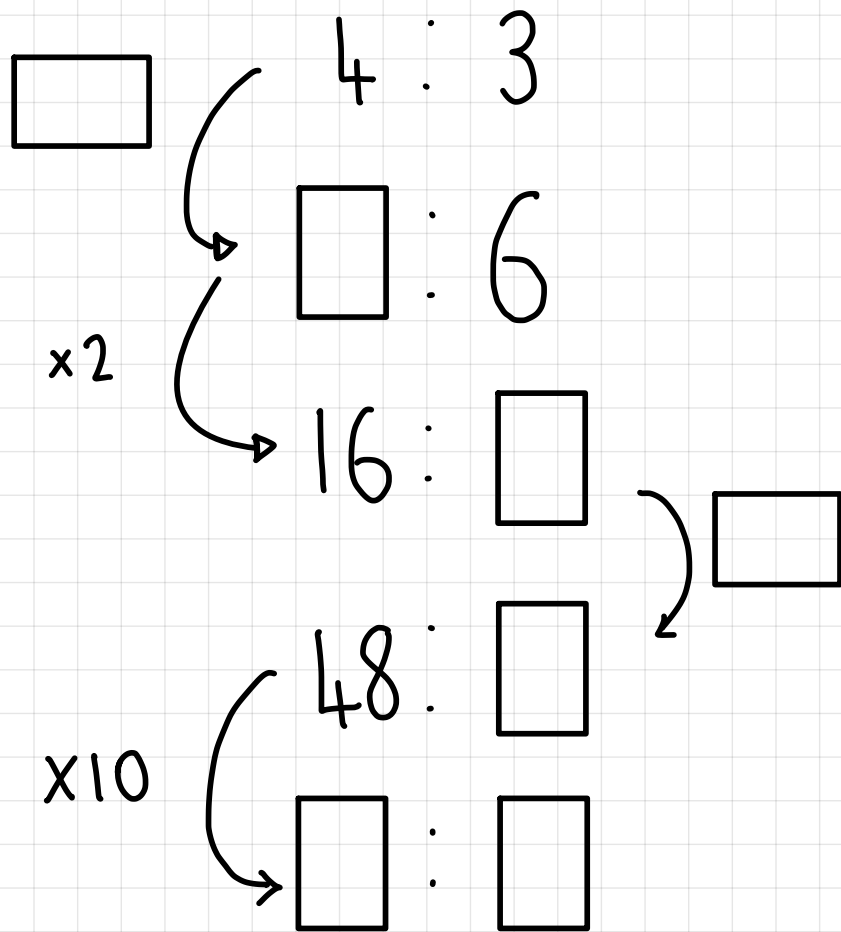


# M:N RATIOS



For every 3 blue counters in a box, there are 5 red counters.



There are more red counters than blue counters in the box.

Must be true

Could be true

Can't be true

For every 3 blue counters in a box, there are 5 red counters.



There are 8 counters in the box.

Must be true

Could be true

Can't be true

For every 3 blue counters in a box, there are 5 red counters.



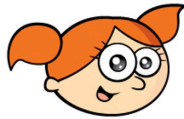
The ratio of blue counters to red counters is 5 : 3

Must be true

Could be true

Can't be true

For every 3 blue counters in a box, there are 5 red counters.



If two red counters are removed there will be the same number of red and blue counters.

Must be true

Could be true

Can't be true

For every 3 blue counters in a box, there are  
5 red counters.

There are 120 blue counters.

How many red counters are there?

For every 3 blue counters in a box, there are  
5 red counters.

There are 120 red counters.

How many blue counters are there?

For every 3 blue counters in a box, there are  
5 red counters.

There are 120 red counters.

How many more red counters are there than  
blue counters?



1 For every 2 apples, there are 3 oranges.

- a) What is the ratio of apples to oranges?
- b) What is the ratio of oranges to apples?
- c) If there are 6 oranges, how many apples will there be?
- d) If there are 6 apples, how many oranges will there be?



2 The ratio of men to women at a football match is 5 : 2

Are these statements true or false?

There are more men than women.

There are 7 people at the football match.

For every 2 women, there are 5 men.

If one more woman arrives, the ratio will change to 5 : 3

3 For every 7 boys in a class, there are 9 girls.

There are 14 boys in the class.

- a) How many girls are there in the class?
- b) How many children are there in the class in total?
- c) How many more girls than boys are there in the class?
- d) There are 3 adults in the classroom.

What is the ratio of adults to children?

4 A teacher orders pencils and rulers in the ratio 3 : 5

- a) One week, the teacher orders 240 pencils.  
How many rulers does she order?
- b) The week after, the teacher orders 240 rulers.  
How many pencils does she order?

5 A farm has sheep and horses in the ratio 7 : 5

- a) If there are 70 horses on the farm, how many sheep are there?
- b) If there are 140 horses on the farm, how many sheep are there?
- c) If there are 35 horses on the farm, how many sheep are there?
- d) What do you notice about your answers?
- e) If there are 280 horses on the farm, how many sheep are there?

6 For every 30 minutes that Huan spends watching TV, Whitney spends 2 hours.

If Huan watches TV for 4 hours, how long does Whitney watch TV for?

7 For every £1 Annie has, Tommy has 50p.



a) Which of these ratios represents the situation?

1 : 1

1 : 50

100 : 50

2 : 1

1 : 2

For any incorrect ratios, discuss the mistake that has been made.

- b) If Annie has £3, how much money does Tommy have?
- c) If Tommy has £2.50, how much money does Annie have?
- d) If Annie has £4.00, how much money do they have altogether?
- e) If Tommy has £7.50, how much more money does Annie have than Tommy?