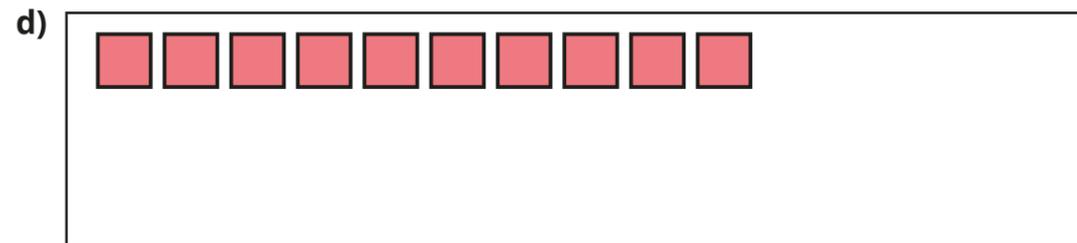
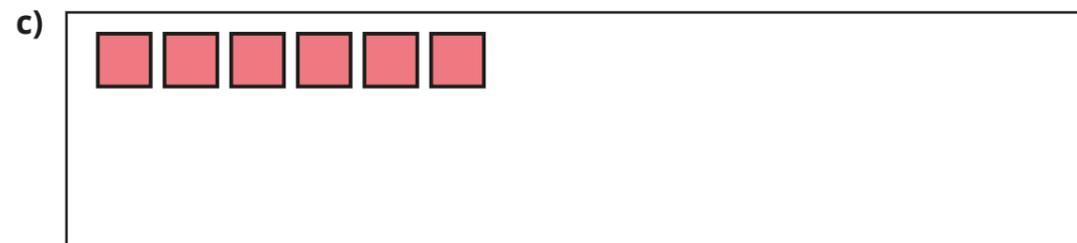
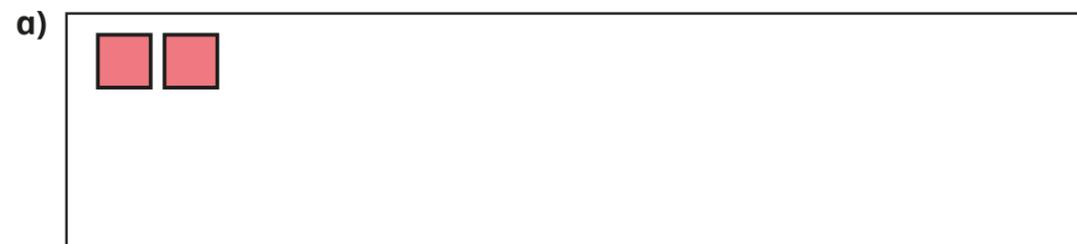


Ratio problems



1 In each diagram, the ratio of squares to circles is 2:3
Draw circles to complete the diagrams.



Compare answers with a partner.



2 A bag contains red and green counters.
For every 3 red counters, there are 6 green counters.
Complete the table.

Red counters	Green counters
3	6
6	
9	
15	
30	
	80
	400

What patterns do you notice between the numbers?



3 For every 1 adult on a school trip, there are 6 children.

adults 

children 

There are 8 adults on the trip.
How many children are there?



4 For every 1 apple in a box, there are 4 oranges.

a) If there are 10 apples in the box, how many oranges are there?

apples

oranges

b) If there are 12 oranges in the box, how many apples are there?

apples

oranges

5 A farmer says, "For every 2 horses in a field, I need to put out 3 bales of hay."

a) How many bales of hay are needed for 8 horses?

b) How many bales of hay are needed for 3 horses?

c) If there are 18 bales of hay in a field, how many horses could the farmer put there?



6 For every 2 blue balloons, there are 3 green balloons. There are 20 balloons altogether.

How many blue balloons are there?

7 Amir has a box of counters.

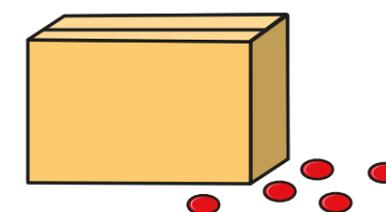
For every 5 red counters in the box, there are 2 green counters.

Amir removes 21 red counters.

There are now the same number of red and green counters in the box.

How many green counters are in the box?

Show all your workings.



8 The ratio of 20p coins to 5p coins in a money box is 5 : 2

There are fifteen 20p coins.

How much money is in the box?

