

N153 Ratio 1

Q1.

There are 78 red counters and 52 yellow counters in a bag.

Write the ratio of the number of red counters to the number of yellow counters.

Give your ratio in its simplest form.

.....
(Total for question = 2 marks)

Q2.

Write the ratio 4.5 : 2.25 in the form $n : 1$

.....
(Total for question = 1 mark)

Q3.

Write down the ratio of 450 grams to 15 grams.

Give your answer in its simplest form.

.....
(Total for question = 2 marks)

Q4.

There are 28 red pens and 84 black pens in a bag.

Write down the ratio of the number of red pens to the number of black pens.
Give your ratio in its simplest form.

.....

(Total for question is 2 marks)

Q5.

A farmer has 20 boxes of eggs.
There are 6 eggs in each box.

Write, as a ratio, the number of eggs in two boxes to the total number of eggs.
Give your answer in its simplest form.

.....

(Total for question = 2 marks)

Q6.

(a) Write £4.20 : £1.40 : £7 in its simplest form.

.....

(2)

(b) Write a number on the dotted line to complete the statement $6 : 4 = \dots\dots\dots : 1$

(1)

(Total for question = 3 marks)

Q7.

A pile of sand has a weight of 60 kg.

The sand is put into a small bag, a medium bag and a large bag in the ratio 2 : 3 : 7

Work out the weight of sand in each bag.

small bag kg
medium bag kg
large bag kg

(Total for Question is 3 marks)

Q8.

Ali, Ben and Candice share £300 in the ratio 2 : 3 : 5

How much money does Candice get?

£

(Total for Question is 2 marks)

Q9.

Neal, Craig and Keith are cousins.

Their ages are in the ratio 17 : 14 : 9

Craig is 42 years old.

How old are Neal and Keith?

Neal years

Keith years

(Total for question = 3 marks)

Q10.

A cafe sells cakes and scones.

On Tuesday, the ratio of the number of cakes sold to the number of scones sold was 5 : 2

On Tuesday, the cafe sold 80 scones.

How many cakes were sold on Tuesday?

.....
(Total for question = 2 marks)

Q11.

There are 64 cards in a pack.

Each card is either red or black.

The ratio of the number of red cards to the number of black cards is 1 : 1

8 red cards are removed from the pack.

Find the ratio of the number of red cards now in the pack to the number of black cards now in the pack.

Give your answer in its simplest form.

.....
(Total for question = 3 marks)

Q12.

Azmol, Ryan and Kim each played a game.

Azmol's score was four times Ryan's score.

Kim's score was half of Azmol's score.

Write down the ratio of Azmol's score to Ryan's score to Kim's score.

.....
(Total for question = 2 marks)

Q13.

There are 20 red counters and 15 blue counters in a bag.

(a) Write down the ratio of the number of red counters to the number of blue counters. Give your ratio in its simplest form.

.....
(2)

There are only red counters and blue counters in the bag.

x red counters are taken from the bag.

y blue counters are taken from the bag.

(b) Write down an expression, in terms of x and y , for the total number of counters now in the bag.

.....
(2)

(Total for question = 4 marks)

Q14.

There are only red counters and blue counters in a bag.
The ratio of the number of red counters to the number of blue counters is 4 : 6

(a) Write this ratio in its simplest form.

.....
(1)

A counter is to be taken at random from the bag.

(b) Write down the probability that the counter will be blue.

.....
(2)

(Total for question = 3 marks)

Q15.

Frank, Mary and Seth shared some sweets in the ratio 4 : 5 : 7
Seth got 18 more sweets than Frank.

Work out the total number of sweets they shared.

.....
(Total for question = 3 marks)

Q16.

Kim, Laura and Molly share £385

The ratio of the amount of money Kim gets to the amount of money Molly gets is 2 : 5
Kim gets £105 less than Molly gets.

What percentage of the £385 does Laura get?

..... %

(Total for question = 4 marks)