

Questions

Q1.

Jack, Kate and Lila share some money in the ratios 5 : 9 : 6
In total, Jack and Kate receive £56

Work out the amount of money Lila receives.

£

(Total for question = 3 marks)

Q2.

The perimeter of a triangle is 90 cm.
The lengths of the sides of the triangle are in the ratios 3 : 5 : 7

Work out the length of the longest side of the triangle.

..... cm

(Total for question = 3 marks)

Q3.

Lisa, Max and Punita share £240 in the ratio 3 : 4 : 8

How much more money than Lisa does Punita get?

£.....

(Total for question = 3 marks)

Q4.

A school has 840 pupils and 40 teachers.

(a) Find the ratio of the number of pupils to the number of teachers.
Give your ratio in the form $n : 1$

..... : 1
(2)

In Year 11 at the school, the ratio of the number of pupils who study Chemistry to the number of pupils who study Physics is 3 : 2

(b) 105 pupils in Year 11 study Chemistry.
Work out the number of pupils in Year 11 who study Physics.

.....
(2)

For the 105 pupils who study Chemistry, the ratio of the number of boys to the number of girls is 4 : 3

(c) Work out the number of girls in Year 11 who study Chemistry.

.....
(2)

(Total for Question is 6 marks)

Q5.

In a school, there are 320 girls and 500 boys.

(a) Write down the ratio of the number of girls to the number of boys.
Give your ratio in its simplest form.

.....
(2)

In a different school, there is a total of 640 children.
In this school, the ratio of the number of girls to the number of boys is 7 : 9

(b) How many boys are there in this school?

.....
(2)

(Total for question = 4 marks)

Q6.

There are 20 students in a class.
12 of the students are girls.

(a) Write 12 out of 20 as a fraction.
Give your fraction in its simplest form.

.....
(2)

(b) Find the ratio of the number of girls to the number of boys.
Give your ratio in the form $n : 1$

.....: 1
(2)

(Total for question = 4 marks)

Q7.

In Kuran's school, 40% of the pupils are boys.

(a) Write 40% as a fraction. Give your fraction in its simplest form.

.....
(2)

(b) What percentage of the pupils in Kuran's school are girls?

..... %
(1)

In Year 11, there are 70 girls and 42 boys.

(c) Write down the ratio of the number of girls to the number of boys in Year 11.
Give your ratio in the form $1:n$.

.....
(2)

(Total for question = 5 marks)

Q8.

(a) There are 32 students in a class.
All the students are either left-handed or right-handed.
The ratio of the number of left-handed students to the number of right-handed students is 1 : 7

Work out the number of right-handed students.

.....

(2)

(b) Sajid makes a scale model of a lorry.
He uses a scale of 1 : 32
The length of Sajid's model lorry is 45 cm.
Chitra makes a scale model of the same lorry.
She uses a scale of 1 : 72
~~students is 1 : 7~~

Work out the length of Chitra's model lorry.

..... cm

(3)

(Total for question is 5 marks)

Q9.

Green paint can be made by mixing yellow paint and blue paint in the ratio 2 : 3
Wendy makes 15 litres of green paint.

Work out how many litres of blue paint Wendy uses.

.....litres

(Total for question = 2 marks)

Q10.

~~19~~ Pritam, Sarah and Emily share some money in the ratios 3 : 6 : 4
Sarah gets \$15 more than Emily.

Work out the amount of money that Pritam gets.

\$

(Total for question = 3 marks)

Q11.

Mortar mix is made by mixing cement, sand and quicklime in the ratio 1 : 2 : 3

(a) Work out the volume of sand needed to make 2.1 m^3 of mortar mix.

..... m^3

(2)

Julie has 0.75 m^3 of quicklime.

She has plenty of sand and cement.

(b) Work out the greatest volume of mortar mix she could make.

..... m^3

(2)

(Total for Question is 4 marks)

Q12.

The ratio of Mark's age to Reeta's age is 3 : 5

Mark's age is 24 years.

(a) Work out Reeta's age.

..... years

(2)

The ratio of John's age to Zahra's age is 1 : 4

The sum of their ages is 45 years.

(b) Work out Zahra's age.

..... years

(Total for Question is 4 marks)