RATIO
EXAM-TYPE QUESTIONS

Ref: G311. **3R1**

A1 Share £60 in the ratio $1:4$	**A2** Share $350 in the ratio $4:3$	**A3** Share £200 in the ratio $3:1:4$	**A4** Chris and Maddie share $120 in the ratio $3:5$ How much do they each receive?
B1 Red and yellow paint are mixed to make orange. Sam mixes 600 ml of red with 400 ml of yellow. Write the ratio of red to yellow. Give the ratio in its simplest form.	**B2** A school has a total of 900 pupils. 400 pupils are boys and the rest are girls. Find the ratio of boys to girls. Give the ratio in its simplest form.	**B3** Nial and Alex have played table tennis against each other 30 times. The ratio of the number of times Nial has won to the number of times Alex has won is $3:7$. How many times has Alex won?	**B4** 1360 people watch a hockey match. The ratio male to female is $3:1$ How many **more** males than females watch the match?
C1 In a school, there are 75 boys in the tennis squad. The ratio of the number of girls to the number of boys is $4:3$ How many girls in the tennis squad?	**C2** Flaky pastry can be made using flour and fat in the ratio $4:3$. Jake makes some flaky pastry using 90 grams of fat. What weight of flour does he use?	**C3** To make grey paint, black paint and white paint are mixed in the ratio $4:7$. Tom uses 300 ml of black paint. How much white paint does he use?	**C4** The sides of a triangle are in the ratio $2:4:5$ The length of the longest side of the triangle is 15 cm. Work out the perimeter of the triangle.
D1 Jack, Evan and Molly share some money in the ratio $5:9:6$ In total, Jack and Molly receive $77. Work out the amount of money that Evan receives.	**D2** At a school the ratio of the number of boys to number of girls is $9:11$ There are 96 **more** girls than boys. Work out the total number of students at the school.	**D3** Nathan, Ayesha and Jordan share some money in the ratio $3:6:4$ Ayesha gets £18 more than Nathan. Work out the amount of money that Jordan gets.	**D4** Siyoni, Adam and Ben share some money in the ratio $5:3:4$ In total, Adam and Ben receive $84. Work out how much they each get.

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A1

Share £60 in the ratio $1:4$

£12 and £48

A2

Share $350 in the ratio $4:3$

$200 and $150

A3

Share £200 in the ratio $3:1:4$

£75, £25 and £100

A4

Chris and Maddie share $120 in the ratio $3:5$

How much do they each receive?

$45 and $75

B1

Red and yellow paint are mixed to make orange. Sam mixes 600 ml of red with 400 ml of yellow.

Write the ratio of red to yellow.
Give the ratio in its simplest form.

$3:2$

B2

A school has a total of 900 pupils. 400 pupils are boys and the rest are girls.

Find the ratio of boys to girls.
Give the ratio in its simplest form.

$4:5$

B3

Nial and Alex have played table tennis against each other 30 times. The ratio of the number of times Nial has won to the number of times Alex has won is $3:7$. How many times has Alex won?

21

B4

1360 people watch a hockey match. The ratio male to female is $3:1$
How many **more** males than females watch the match?

680

C1

In a school, there are 75 boys in the tennis squad. The ratio of the number of girls to the number of boys is $4:3$

How many girls in the tennis squad?

100

C2

Flaky pastry can be made using flour and fat in the ratio $4:3$.
Jake makes some flaky pastry using 90 grams of fat.

What weight of flour does he use?

120 g

C3

To make grey paint, black paint and white paint are mixed in the ratio $4:7$.

Tom uses 300 ml of black paint. How much white paint does he use?

525 ml

C4

The sides of a triangle are in the ratio $2:4:5$ The length of the longest side of the triangle is 15 cm.

Work out the perimeter of the triangle.

33 cm

D1

Jack, Evan and Molly share some money in the ratio $5:9:6$

In total, Jack and Molly receive $77.

Work out the amount of money that Evan receives.

$63

D2

At a school the ratio of the number of boys to number of girls is $9:11$

There are 96 **more** girls than boys. Work out the total number of students at the school.

960

D3

Nathan, Ayesha and Jordan share some money in the ratio $3:6:4$

Ayesha gets £18 more than Nathan.

Work out the amount of money that Jordan gets.

£24

D4

Siyoni, Adam and Ben share some money in the ratio $5:3:4$

In total, Adam and Ben receive $84.

Work out how much they each get.

$60, $36 and $48