

Examples



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Workout

Question 1: In a bag there are blue, green and yellow counters.

The ratio of blue counters to green counters is 3:2

The ratio of green counters to yellow counters is 2:5

- (a) Write down the ratio of blue to green to yellow counters in the bag.
(b) What percentage of the beads are green?

Question 2: Archie made some cupcakes for a charity coffee morning.

The ratio of chocolate cupcakes to strawberry cupcakes was 3:1

The ratio of strawberry cupcakes to lemon cupcakes was 2:3

- (a) Write down the ratio of chocolate to strawberry to lemon cupcakes.
(b) Work out the smallest possible number of cupcakes that Archie could have made.

Question 3: At a safari park, the ratio of lions to tigers is 7:4.

The ratio of elephants to tigers is 1:2

Write down the ratio of lions to tigers to elephants in the safari park.

Question 4: A bag contains three different shaped pieces of card.

The ratio of circles to triangles is 2:3

The ratio of triangles to rectangles is 2:5

Find the ratio of circles to triangles to rectangles.

Question 5: In a school, all students are taught either French, German or Spanish.

The ratio of the number of students taught French to those taught German is 3:4

The ratio of the number of students taught French to taught Spanish is 12:11

Find the ratio of the number of students taught Spanish to taught German.

Question 6: In a box there are white chocolates, milk chocolates and dark chocolates.

The ratio of white chocolates to milk chocolates is 3:5

The ratio of milk chocolates to dark chocolates is 8:1

What fraction of the chocolates are white chocolate?

Apply

Question 1: In a drawer, there are white, black and grey socks.
The ratio of white socks to black socks is 3:2
The ratio of white socks to grey socks is 9:4

(a) Write down the ratio of white socks to black socks to grey socks.

Elsie says there is an odd white sock.

(b) Explain why Elsie might be wrong.

Question 2: The ratio of red pens to black pens is 2:9
The ratio of black pens to blue pens is 5:4

Show less than 50% of the pens are black.

Question 3: A quadrilateral, ABCD, is drawn.

The ratio of the size of angle A to angle B is 1:3

The ratio of the size of angle B to angle D is 5:3

The ratio of the size of angle C to angle A is 7:5

Find the difference in size between the largest and smallest angles in quadrilateral ABCD.

Question 4: The ratio of Scott's age to Georgia's age to Fiona's age is 11:6:7
The ratio of Oscar's age to Georgia's age is 3:4

Find the ratio of Fiona's age to Oscar's age.

Question 5: Given $4x = 3y$ and $y : z = 1 : 2$

Find x in terms of z

Question 6: w is 15% of x

y is $\frac{3}{5}$ of x

Find the ratio $w:x:y$

Answers



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