

Examples

Workout



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Question 1:

- | | |
|---------------------------------|---|
| (a) Share £20 in the ratio 2:3 | (b) Share 15cm in the ratio 1:2 |
| (c) Divide £24 in the ratio 1:3 | (d) Share 35 sweets in the ratio 4:3 |
| (e) Divide 55g in the ratio 3:2 | (f) Divide 54kg in the ratio 1:5 |
| (g) Share £210 in the ratio 2:5 | (h) Share 120 hours in the ratio 5:7 |
| (i) Share 350m in the ratio 3:7 | (j) Divide 360° in the ratio 1:4 |

Question 2:

- | | |
|-----------------------------------|---------------------------------------|
| (a) Share £104 in the ratio 3:5 | (b) Divide 161 miles in the ratio 6:1 |
| (c) Divide 315ml in the ratio 2:7 | (d) Share \$650 in the ratio 4:9 |
| (e) Share £800 in the ratio 11:14 | (f) Share 1200kg in the ratio 3:37 |
| (g) Divide €510 in the ratio 13:2 | (h) Share 1116mm in the ratio 1:8 |

Question 3:

- | | |
|--------------------------------------|--|
| (a) Share £40 in the ratio 1:3:4 | (b) Divide 63ml in the ratio 2:3:4 |
| (c) Share 88p in the ratio 2:4:5 | (d) Share 180° in the ratio 2:2:5 |
| (e) Divide \$165 in the ratio 1:2:12 | (f) Share 720cm in the ratio 3:4:2:9 |

Question 4:

- | | |
|-----------------------------------|--------------------------------------|
| (a) Share 1km in the ratio 2:3 | (b) Divide 2m in the ratio 9:1 |
| (c) Divide 1 day in the ratio 1:2 | (d) Share 4 minutes in the ratio 2:3 |
| (e) Share £6 in the ratio 1:4 | (f) Share €12 in the ratio 7:17 |

Question 5: Work out each of the following. You may use a calculator

- (a) Share 10ml in the ratio 1:3 (b) Divide 17g in the ratio 2:3
(c) Divide 345ml in the ratio 3:5 (d) Divide £260 in the ratio 5:11
(e) Share 58° in the ratio 2:7 (f) Share 880 seconds in the ratio 2:5:11

Apply

Question 1: Ed has 30 sweets.
The ratio of red sweets to yellow sweets is 2:3
How many red sweets does Ed have?



Question 2: Liam and Nathan share £60 in the ratio 1:3
How much money does each man receive?

Question 3: The ratio of adults to children at a cricket match is 7:3.
There 150 people at the match.
How many children attended the cricket match?



Question 4: Mark is making concrete.
Concrete is made by mixing cement, sand and gravel in the ratio 1:2:3.
Mark wants to make 300kg of concrete.

- (a) How much cement does Mark need?
(b) How much sand does Mark need?
(c) How much gravel does Mark need?

Question 5: The angles in a triangle are in the ratio 1:1:4

- (a) Find the size of each angle
(b) What type of triangle is it?

Question 6: Dorothy has green and blue beads in the ratio 1:4
Dorothy has 80 beads.

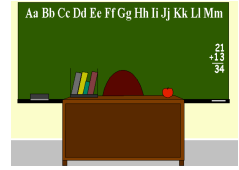
- (a) How many blue beads does she have?
(b) What fraction of the beads are green?
(c) What percentage of the beads are blue?

Ratio: Sharing the Total

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Question 7: The ratio of boys to girls in a class is 2:3
Ben says there are 28 students in the class.

- (a) Explain why Ben must be wrong
(b) Write down a possible number of students in the class



Question 8: At a football match, the ratio of children to adults is 2:7
There are 2700 people in the crowd.
Each adult ticket is £8
Each child ticket costs £3 less than an adult ticket.

Work out the total money made from ticket sales.

Question 9: In a school, all students study one language, French or Spanish.
The ratio of girls to boys in Year 11 is 4:3
 $\frac{3}{4}$ of the boys study French
There are 168 students in Year 11.



How many of the boys study Spanish?

Question 10: In a school election there were four candidates: Tom, Rebecca, Olly and Wendy.
540 students voted in the election.

5% of the votes were for Tom

$\frac{2}{9}$ of the votes were for Rebecca

The ratio of the number of votes for Olly to the number of votes to Wendy was 1:2

How many votes were for Wendy?

Question 11: A drink is made by mixing orange juice and lemonade in the ratio 1:4
Lemonade costs 80p per litre
Orange juice costs £1.20 per litre
Work out the cost of making 3 litres of the drink.

Question 12: Hannah baked some chocolate, strawberry and vanilla cupcakes.
She baked four times as many chocolate as strawberry cupcakes.
She baked three times as many chocolate as vanilla cupcakes.
Altogether Hannah made 152 cupcakes.

How many cupcakes of each flavour did Hannah make?

Ratio: Sharing the Total

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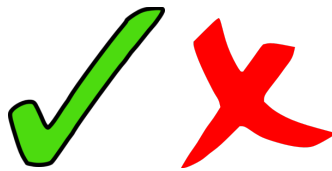
Question 13: In a car park the ratio of white cars to black cars is 2:7
The ratio of white cars to red cars is 3:11
Altogether there are 343 white, black and red cars.

How many black cars are in the car park?

Question 14: At a holiday park, guests either stay in a caravan or in a tent.
In 2017 there were 460 guests.
In 2017 the number of guests was 15% greater than in 2016.
The ratio, in 2016, of people staying in a caravan to staying in a tent was 5:3.

How many guests stayed in caravans in 2016?

Answers



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