

Examples



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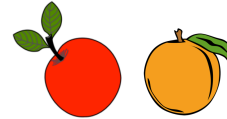
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Workout

Question 1: A drawer contains white socks and black socks only.  
The number of white socks to the number of black socks is in the ratio 1:3  
There are 12 white socks.

- (a) Work out the number of black socks in the drawer.
- (b) Work out the total number of socks in the drawer.

Question 2: James has some apples and oranges.  
The ratio of apples and oranges is 2:5  
He has 15 oranges.  
How many apples does James have?



Question 3: The ratio of lemon sweets to strawberry sweets in a tub is 5:3  
There are 120 lemon sweets in the tub.  
How many strawberry sweets are in the tub?

Question 4: Rachel has some first class and some second class stamps.  
The ratio of the number of first class to the number of second class stamps is 3:4  
Rachel has 18 first class stamps.

- (a) How many second class stamps does Rachel have?
- (b) How many stamps does Rachel have in total?

Question 5: Abby, Neil and Dylan share a sum of money in the ratio 2:4:5  
Neil receives £60  
Work out how much money Dylan receives.

Question 6: The ratio of the number of girls to the number of boys in a school is 9:10  
There are 900 boys in the school.

Work out the total number of students in the school.

Question 7: Flour, sugar and butter are mixed in the ratio 6:2:3  
How many grams of flour and sugar are needed to mix with 180g of butter?



Apply

- Question 1: Four angles are in the ratio 2:3:4:11  
The largest angle is  $198^\circ$   
Show the four angles will fit together at a point with no gaps.
- Question 2: Matthew makes a drink using lemonade and orange juice.  
210ml of his drink was lemonade  
140ml of his drink was orange juice  
Rosie makes more of the drink for a party using the same ratio of lemonade to orange juice.  
Rosie uses 6 litres of lemonade.  
How much orange juice does Rosie use?
- Question 3: There are red and green apples in a crate.  
There are 60 green apples in the crate.  
The ratio of the number of red apples to green apples is 1:5  
Georgia puts in some more red apples into the crate.  
The ratio of the number of red apples to green apples is now 2:3  
How many red apples does Georgia put into the crate?
- Question 4: Olive has 600 fruit trees.  
Some of the trees are apple trees.  
The rest of the trees are pears trees and plum trees in the ratio 7:5.  
There are 175 plum trees.  
Work out what fraction of the trees are apple trees.
- Question 5: Two numbers are in the ratio 4:3  
One of the numbers is 1.8  
What are the two possible values for the other number?
- Question 6: Jason, Katie and Leonard share some money.  
Jason gets  $\frac{1}{5}$  of the money.  
Katie and Leonard share the rest of the money in the ratio 17:3  
Jason gives 45% of his share of the money to his mother.  
He has £198 left.  
How much more money does Katie receive than Jason?



Answers



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