

26: How to share amounts into given ratios



Scenario Questions:

1. A box contains 63 red and blue marbles in the ratio of 2:5. How many blue marbles are there?

2. A cake recipe calls for a mixture of flour and sugar in the ratio of 3:4. How much sugar should be used if you need 350 grams of the mixture?

3. A company is splitting a bonus of £500,000 among its employees in the ratio of 2:5:3. How much will each employee receive?

4. In a bag of colored pencils, the ratio of red to blue pencils is 5:3. If there are 32 pencils in total, how many blue pencils are there?

5. A basket contains a mixture of apples and oranges in the ratio of 3:2. If there are 40 fruits in total, how many are oranges?

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Scenario Questions:

6. A team jersey is made up of red and black colours in the ratio of 1:4. If there are 45 sections, how many red sections are there?

7. A company is distributing 240 pens among its employees in the ratio of 1:4:3. How many pens does the second employee receive?

8. A bag contains a mixture of pennies, 50p's, and pounds in the ratio of 2:3:4. If there are 81 coins in total, how many are pennies?

9. A painting is made up of yellow and green sections in a ratio of 3:7. If there are 60 sections, how many yellow sections are there?

10. The ratio of boys to girls in a class is 4:7. If there are 66 students in total, how many are boys?

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Scenario Questions: **Answers**

1. A box contains 63 red and blue marbles in the ratio of 2:5. How many blue marbles are there?

1. 45

2. A cake recipe calls for a mixture of flour and sugar in the ratio of 3:4. How much sugar should be used if you need 350 grams of the mixture?

2. 200 grams

3. A company is splitting a bonus of £500,000 among its employees in the ratio of 2:5:3. How much will each employee receive?

3. £100,000, £250,000, £150,000

4. In a bag of colored pencils, the ratio of red to blue pencils is 5:3. If there are 32 pencils in total, how many blue pencils are there?

4. 12

5. A basket contains a mixture of apples and oranges in the ratio of 3:2. If there are 40 fruits in total, how many are oranges?

5. 16

6. A team jersey is made up of red and black colours in the ratio of 1:4. If there are 45 sections, how many red sections are there?

6. 9

7. A company is distributing 240 pens among its employees in the ratio of 1:4:3. How many pens does the second employee receive?

7. 120

8. A bag contains a mixture of pennies, 50p's, and pounds in the ratio of 2:3:4. If there are 81 coins in total, how many are pennies?

8. 18

9. A painting is made up of yellow and green sections in a ratio of 3:7. If there are 60 sections, how many yellow sections are there?

9. 18

10. The ratio of boys to girls in a class is 4:7. If there are 66 students in total, how many are boys?

10. 24