

1. A chocolate bar is shared between three people in the ratio 5 : 8 : 12. What percentage of the chocolate did the person with the largest share eat?
 2. Divide £75 between Alice, Ben, and Charlie in the ratio 2 : 3 : 5. How much money does each person receive?
 3. The angles in a triangle are in the ratio 2 : 3 : 7. Find the size of each angle.
 4. If 30 sweets are shared among four children in the ratio 1 : 2 : 3 : 4, how many sweets does each child get?
 5. The cost of red, blue, and green pens is in the ratio 5 : 7 : 8. If a green pen costs £4 more than a red pen, how much does each pen cost?
 6. Sarah, Mike, and John share £300 in the ratio 4 : 5 : 6. How much does each person get?
 7. The areas of three gardens are in the ratio 6 : 9 : 15. If the smallest garden is 24 m², what are the areas of the other two gardens?
 8. A class of students is divided into three groups in the ratio 3 : 5 : 7. If there are 75 students in total, how many students are in each group?
 9. The time taken by three friends to complete a project is in the ratio 2 : 5 : 8. If the friend who took the longest needed 24 days, how many days did the others take?
 10. The ratio of boys to girls in a club is 7 : 11. If there are 63 boys, how many girls are there?
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Answer Key

1. 40% (12 out of 25 parts: $\frac{12}{25} \times 100 = 48\%$, but 12 is the largest, so 48%)
2. Alice: £15, Ben: £22.50, Charlie: £37.50
3. 30°, 45°, 105°
4. 3, 6, 9, and 12 sweets respectively
5. Red pen: £10, Blue pen: £14, Green pen: £16
6. Sarah: £80, Mike: £100, John: £120
7. 24 m², 36 m², and 60 m²
8. 15, 25, and 35 students in each group
9. 6 days and 15 days (friend 1: 6 days, friend 2: 15 days, friend 3: 24 days)
10. 99 girls ($\frac{11}{7} \times 63 = 99$)