

SHARING INTO A RATIO

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

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| 1. Share 10 in ratio 1:1 5 and 5 | 2. Share 15 in ratio 2:1 10 and 5 |
| 3. Share 20 in ratio 3:2 12 and 8 | 4. Share 30 in ratio 1:2 10 and 20 |
| 5. Share 25 in ratio 4:1 20 and 5 | 6. Share 40 in ratio 3:5 15 and 25 |
| 7. Share 50 in ratio 2:3 20 and 30 | 8. Share 60 in ratio 4:2 40 and 20 |
| 9. Share 30 in ratio 1:2:3 5, 10, 15 | 10. Share 48 in ratio 2:3:1 16, 24, 8 |
| 11. Share 100 in ratio 3:7 30 and 70 | 12. Share 120 in ratio 5:3 75 and 45 |
| 13. Share 90 in ratio 4:5 40 and 50 | 14. Share 24 in ratio $\frac{1}{2} : \frac{1}{4}$ 16 and 8 |
| 15. Share 36 in ratio $\frac{3}{4} : \frac{1}{4}$ 27 and 9 | 16. Ratio A:B = 3:2, A=18, find B 12 |
| 17. Ratio X:Y = 4:5, X=20, find Y 25 | 18. Ratio P:Q = 7:3, Q=15, find P 35 |
| 19. Share 100 in ratio 1:2:3 $\frac{50}{3}$, $\frac{100}{3}$, 50 | 20. Share 120 in ratio 2:3:4 $\frac{80}{3}$, 40, $\frac{160}{3}$ |

21. Share 50 in ratio $0.5 : 0.5$ | 25 and 25
22. Share 60 in ratio $1.5 : 2.5$ | 22.5 and 37.5
23. Share 100 in ratio $\frac{2}{3} : \frac{1}{3}$ | $\frac{200}{3}$ and $\frac{100}{3}$
24. Larger share 45 in ratio $5:3$, find smaller share | 27
25. Total 49 shared in ratio $3:4$, find parts | 21 and 28
26. Share 72 in ratio $3:5:7$ | 14.4, 24, 33.6
27. Ratio $M:N = 5:8$, $M=25$, find N | 40
28. Share 150 in ratio $4:6$ | 60 and 90
29. Share 200 in ratio $1.2 : 0.8$ | 120 and 80
30. Share 180 in ratio $\frac{5}{3} : \frac{4}{3}$ | 100 and 80

MASTER QUESTIONS



- M1. Two people share £60 in the ratio $3:2$. How much does each get? | £36 and £24
- M2. A bag of sweets is shared between Tom and Jerry in the ratio $4:5$. If Tom gets 16 sweets, how many sweets are there in total? | 36 sweets
- M3. The ratio of boys to girls in a class is $3:4$. If there are 21 boys, how many girls are there? | 28 girls
- M4. A sum of money is divided between A, B, and C in the ratio $2:3:4$. If B gets £90, what is the total sum? | £270
- M5. In a mixture, alcohol and water are in the ratio $7:3$. If there are 35 litres of alcohol, how much water is there? | 15 litres
- M6. The angles of a triangle are in the ratio $2:3:4$. Find the measures of the angles. | $40^\circ, 60^\circ, 80^\circ$

- M7.** A rectangle has length and width in the ratio 5:3. If the perimeter is 48 cm, find the length and width. | Length 15 cm, width 9 cm
- M8.** Three partners invest in a business in the ratio 4:5:6. The total investment is £75,000. How much did each invest? | £20,000, £25,000, £30,000
- M9.** The ratio of the speeds of two cars is 4:5. If the faster car travels 300 km in a certain time, how far does the slower car travel in the same time? | 240 km
- M10.** A recipe requires flour and sugar in the ratio 3:2. If 450 g of flour is used, how much sugar is needed? | 300 g