

- Q1. Red:Blue = 2:3. If there are 16 red marbles, how many blue marbles?
- Q2. Cats:Dogs = 5:2. If there are 25 cats, how many dogs?
- Q3. Apples:Oranges = 3:7. If there are 42 oranges, how many apples?
- Q4. Pens:Pencils = 4:5. If there are 36 pens, how many pencils and total items?
- Q5. Sugar:Flour = 1:4. If there are 2.5 kg sugar, how much flour?
- Q6. Year 7:Year 8 = 6:5. If Year 7 has 54 students, how many in Year 8?
- Q7. Red:Green:Blue paint = 2:1:3. If there are 12 parts of blue, how many red and green?
- Q8. Bus A:Bus B passengers = 7:9. If Bus B has 72 passengers, how many on Bus A?
- Q9. Small:Large boxes = 3:8. If there are 48 large boxes, how many small boxes?
- Q10. Team A:Team B:Team C = 4:5:6. If Team A has 20 points, how many points for B and C?
- Q11. Maths:English = 5:4. If there are 45 Maths books, how many English books and total books?
- Q12. Water:Juice = 3:2. If the mixture is 25 litres in total, how many litres of water and juice?
- Q13. Bike:Car rentals = 9:2. If there are 63 bike rentals, how many car rentals?
- Q14. Girls:Boys = 7:5. If there are 60 students in total, how many girls and boys?
- Q15. Coins £1:50p = 2:3. If there are 24 fifty-pence coins, how many £1 coins and what is the total value?

Q1. Scale = $16 \div 2 = 8 \rightarrow$ Blue = $3 \times 8 = 24$.

Q2. Scale = $25 \div 5 = 5 \rightarrow$ Dogs = $2 \times 5 = 10$.

Q3. Scale = $42 \div 7 = 6 \rightarrow$ Apples = $3 \times 6 = 18$.

Q4. Scale = $36 \div 4 = 9 \rightarrow$ Pencils = $5 \times 9 = 45 \rightarrow$ Total = 81.

Q5. Scale = $2.5 \div 1 = 2.5 \rightarrow$ Flour = $4 \times 2.5 = 10$ kg.

Q6. Scale = $54 \div 6 = 9 \rightarrow$ Year 8 = $5 \times 9 = 45$.

Q7. Blue is 3 parts: scale = $12 \div 3 = 4 \rightarrow$ Red = $2 \times 4 = 8$, Green = $1 \times 4 = 4$.

Q8. Scale = $72 \div 9 = 8 \rightarrow$ Bus A = $7 \times 8 = 56$.

Q9. Scale = $48 \div 8 = 6 \rightarrow$ Small = $3 \times 6 = 18$.

Q10. Scale = $20 \div 4 = 5 \rightarrow$ Team B = $5 \times 5 = 25$, Team C = $6 \times 5 = 30$.

Q11. Scale = $45 \div 5 = 9 \rightarrow$ English = $4 \times 9 = 36 \rightarrow$ Total = 81.

Q12. Total parts = 5 $\rightarrow$ One part = $25 \div 5 = 5$ L $\rightarrow$ Water = 15 L, Juice = 10 L.

Q13. Scale = $63 \div 9 = 7 \rightarrow$ Cars = $2 \times 7 = 14$.

Q14. Total parts = 12 $\rightarrow$ One part = $60 \div 12 = 5 \rightarrow$ Girls = 35, Boys = 25.

Q15. Scale = $24 \div 3 = 8 \rightarrow$ £1 coins = $2 \times 8 = 16 \rightarrow$ Total value = $16 \times £1 + 24 \times £0.50 = £28$.