

Answer Key: Ratio Extension Problems

Simplifying Ratios Past

1. 3:2
2. 3:10
3. 3:17
4. (a) 35%
(b) 9:4:7
5. 59:50

Simplifying Ratios Future

6. Perimeter ratio: 2:1, Area ratio: 4:1
7. Perimeter ratio: 1:3, Area ratio: 1:9
8. (a) Scale factor: $\frac{3}{2}$ (or 1.5)
(b) Perimeter ratio: 2:3
(c) Area ratio: 4:9
9. 5:1
10. (a) Circumference ratio: 1:2
(b) Area ratio: 1:4

Sharing Into Ratios Past

11. Ratio: 3:2, Amounts: £48 and £32
12. £60
13. Ratio: 5:7:8, Amounts: £625, £875, £1000
14. Flour: 240 g, Sugar: 160 g
15. Total: £80,000, Ratio: 5:2:3

Sharing Into Ratios Future

16. 54 cm^2
17. 30 cm
18. 48 cm
19. $6 \text{ m by } 8 \text{ m}$
20. $\sqrt{11} \text{ m } (\approx 3.32 \text{ m})$

Ratio Problem Solving Past

21. 32%
22. $6:5$
23. $5:4$
24. $161:60$