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 m by 8 m

20. $\sqrt{11}$ m ($\approx$ 3.32 m)

Ratio Problem Solving Past

21. 32%

22. 6:5

23. 5:4

24. 161:60