

page 237 *Exercise 6*

1. 38; 12p change 2. (a) \$852 (b) £281.69 3. 0.840
 4. 74 g 5. 1.2 kg is better 6. 3.2 7. $12\frac{1}{2}$ min
 9. (a) 105° (b) 65° 10. (a) one: 19/5/95 (b) four: 8/12/96; 12/8/96; 24/4/96; 16/6/96

Part 7page 241 *Test 1*

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|-------|-------|-------|-------|-------|
| 1. C | 2. A | 3. C | 4. D | 5. C |
| 6. D | 7. C | 8. C | 9. C | 10. D |
| 11. C | 12. B | 13. D | 14. C | 15. D |
| 16. B | 17. D | 18. B | 19. D | 20. B |
| 21. A | 22. A | 23. A | 24. B | 25. C |

page 242 *Test 2*

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|-------|-------|-------|-------|-------|
| 1. B | 2. C | 3. A | 4. D | 5. A |
| 6. D | 7. B | 8. D | 9. A | 10. C |
| 11. C | 12. C | 13. B | 14. D | 15. B |
| 16. C | 17. B | 18. D | 19. C | 20. B |
| 21. A | 22. A | 23. D | 24. B | 25. C |

page 244 *Test 3*

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|-------|-------|-------|-------|-------|
| 1. B | 2. C | 3. C | 4. A | 5. B |
| 6. D | 7. C | 8. A | 9. C | 10. D |
| 11. B | 12. D | 13. A | 14. B | 15. C |
| 16. D | 17. C | 18. A | 19. A | 20. C |

page 246 *Revision exercise 1*

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|--|------------------------------|
| 1. (3, 10); $x = 2, y = 8$ | 2. (10, -1); $x = 7, y = 1$ |
| 3. (10, -3); $x = 7\frac{1}{2}, y = -2\frac{1}{2}$ | 4. (5, -6) |
| 5. (4, -8) | 6. (-4, 7); $x = -6, y = 7$ |
| 7. (-3, 3); $x = 0, y = 0, y = x, y = -x$ | 8. (4, -2) |
| 9. (-1, -8), (-7, -2), (-9, -8) | 10. (-4, 4), (-2, 4), (0, 8) |
| 11. (9, 9), (9, 6); $x = 7\frac{1}{2}, y = 7\frac{1}{2}, x + y = 15$ | |

page 247 *Revision exercise 2*

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|------------------------------|--|----------------------|-----------------------------|
| 1. 120 g | 2. £35.43 | 3. $67\frac{1}{2}\%$ | 4. (a) £5.11 (b) £3.84 |
| 5. (a) 5, 8, 20 | (b) 8, 12, 20 | (c) 5, 11, 13, 17 | |
| 6. (a) 13.3 | (b) 3.33 | (c) 7.16 | (d) 1.51 |
| 7. (a) 51 | (b) 46 | (c) 18 | 8. 31 cm^2 |
| 9. (a) 6 | (b) 7 | (c) 1 | |
| 10. (a) 4.9 cm (± 0.1) | (b) $33\frac{1}{2}^\circ$ ($\pm 1\frac{1}{2}^\circ$) | | |
| 11. (a) $\frac{1}{2}$ | (b) $\frac{3}{4}$ | (c) $\frac{1}{8}$ | |

page 248 *Revision exercise 3*

1. (c) (i) (4, -2) (ii) (4, 4) (iii) (-2, -2) (iv) (0, -2)
 2. (a) 10.2 (b) 6.6 (c) 27.2
 3. (a) 25 cm^2 , 20 cm^2 , 45 cm^2 (b) (i) 32 cm^2 (ii) 45 cm^2
 4. (a) 230 cm (b) 0.045 kg (c) 24 inches (d) 0.26 km (e) 3000 ml
 (f) 16 ounces (g) 2.5 cm (h) 3 feet (i) 2600 g
 5. 1 green, 2 yellow, 3 blue
 6. 9 7. £2.76 8. (a) $x = 78^\circ$, $y = 72^\circ$ (b) $a = 40^\circ$ (c) $b = 8^\circ$
 9. Con. 115.2° , Lab. 126° , Lib Dem 91.8° , Don't know 27°
 10. 10 min 11. (2, 8), (6, 8), (2, 0), (6, 0), (4, 2), (4, 6) 12. $x = 2.5\text{ cm}$

page 250 *Revision exercise 4*

1. £39.32 2. (a) 5.5 (b) 0.3 (c) 2.4
 3. (a) $\frac{1}{10}$ (b) $\frac{1}{12}$ (c) $\frac{1}{20}$
 6. 40, 41, 42, 43, 44 7. (a) possible (b) false (c) possible
 8. (a) $2a + b + c$ (b) $2a$, a , $3a$ (c) $3m + n$, $2m + 4n$, $5m + 5n$
 9. $a = 6$, $b = 4$, $c = 5$, $d = 6$, $e = 4$, $f = 5$
 10. (All cm^2) A = 2, B = 6, C = 1, D = 3, E = 3, F = 3, G = 3, H = 2, I = 4

11. (a)

3	2	-2
-4	1	6
4	0	-1

 (b)

0	1	-4
-5	-1	3
2	-3	-2

page 252 *Practice test 5*

1. 94 cm^2 2. $+1$, $\div 4$ 3. (a) various e.g. $690 \div 2$ (b) e.g. $460 \div 4$
 5. $\frac{7}{8}$ 6. £44.55 7. £1000
 9. (a) $5 + 3 - 1$ (b) $(5 + 1) \div 2$ (c) $(1 + 2) \div (5 - 3)$ (d) $(2 + 4 + 5) \times 3$ (other possible answers)
 10. (a) 1:4 (b) 20% 11. (a) 96 cm^2 (b) 48 cm 12. (4, 5)
 13. £5.40, £8.10 14. 184 cm 15. 16 km 16. $\frac{3}{7}$