

Mid Book Review - page 108

page 108 Review exercise 1

1. (a) 2000 (b) 48 (c) 40 (d) 2.9 (e) 0.5 (f) 35
2. (a) 29 (b) 7, 17 (c) 3, 9, 21 3. (a) add $\frac{1}{2}$ (b) double (c) subtract 0.2
4. (a) 33 (b) 72 (c) 229 5. (a) 22 (b) 51
6. (a) $\frac{1}{8}$ (b) $\frac{2}{8}$ (c) $\frac{3}{10}$ (d) $\frac{1}{2}$ (e) 40
- (f) 24 (g) 200 (h) $\frac{11}{12}$
7. (a) 5 (b) 20 (c) 8 (d) 9
8. (a) 12 cm^2 (b) 40 cm^2 (c) 20 cm^2
9. 32 cm^2 10. 31 cm^2
11. (a) 16 (b) 8 (c) 1 (d) 1000
12. (a) 3.9 (b) 2.6 (c) 11.6 (d) 2.9
13. (a) -5 (b) -3 (c) -8 (d) 6
- (e) 6 (f) -12 (g) 0 (h) -18

14. (a)

6	7	2
1	5	9
8	3	4

(b)

-4	3	-5
-3	-2	-1
1	-7	0

15. For discussion

page 110 Review exercise 2

1. £5000 2. (a) 19.9 (b) 0.97 (c) 48.0 (d) 99.8 (e) 0.11 (f) 211.2
3. (a) F (b) T (c) T (d) T (e) T (f) T
4. (a) 40 pence (b) $100 - 10n$ pence
5. (a) $6^2 = 5^2 + 2 \times 5 + 1$ (b) $n^2 = (n-1)^2 + 2(n-1) + 1$
6. (a) 92° (b) $b = 84^\circ$, $c = 96^\circ$ (c) $d = 69^\circ$
7. 117 8. 13.7 cm^2
9. (a) 75.4 cm^2 (b) 70.7 cm^2 11. 50
12. (a) 5m (b) 6kg (c) 10 miles
13. £3680 14. 5.38 15. (a) 6 (b) $\frac{1}{3}$ 16. $\frac{1}{6}$
17. 100 000 000 18. 211

page 112 Review Exercise 3

1. (a) 65p, £0.8, £1.25 (b) 3.45 (c) (i) true (ii) false
2. (a) 0.7 (b) 0.16 (c) 12 (d) 60 (e) 400 (f) 12
3. (a) 11.56 (b) 4.5 (c) 0.84 (d) 1.6 (e) 21.6 (f) 5.627
4. (a) 53 (b) 45 5. 15.2 kg 6. 3.6
8. (a) 76 (b) 39 (c) 88 (d) 134 (e) 1200 (f) 550
- (g) 272 (h) 103

Revision Exercises - page 248

page 248 Revision exercise 1

- (a) -11 (b) -16 (c) 4 (d) -1 (e) 5 (f) -8
(g) 0 (h) 0
- (a) $2x + 1 = 3x - 6$ (b) $x = 7$, area = 135 cm^2
- (a) 1.6 (b) 1.1 (c) 12.4 (d) 103.2 (e) 0.3 (f) 1.5
- (a) 25.1 cm (b) 100.94 (c) 9.24 (d) 0.2 (e) 200 (f) 2.97
- (a) 20.28 (b) 8 (c) $1\frac{4}{7}$
- 9.42 cm 11. 3 12. 54° or 57°
- $7\frac{1}{2} \text{ cm}$ 13. (a) 5.87 (b) 1.45 (c) 3.49 (d) 1.54 (e) £24.53

page 250 Revision exercise 2

- (a) 5000 (b) 10 (c) 100 (d) 20 (e) £20
- (a) 072° (b) 252°
- (a) 10 cm (b) 24 cm^2 (c) 4.8 cm
- (a) 3.9 (b) 4.2 (c) 11.7
- (a) 40 (b) 5.8 (c) (i) 6 (ii) 6
- (a) 18 (b) 25
- (a)

b	3	5	7
w	3	10	21

 (b) $b = 9$, $w = 36$ (c) 55 (d) 17
- (c) Maths and Geography: no correlation; History and Geography: strong positive correlation
(d) Pupil I: Maths mark impossible to estimate; History mark about 32.
- 61.1% 10. (b) (i) $\frac{1}{10}$ (ii) $\frac{1}{15}$ (c) $\frac{1}{8}$
- Rotation 90° anticlockwise about (4, 4)

page 252 Revision exercise 3

- (a) 80 km/h (b) 40 km/h (c) 10 km (d) 43.6 km/h
- 3 4. (a) (i) 0.22 (ii) 0.625 (iii) 0.07 (b) 65% (c) 0.01, 10%, 0.11, $\frac{1}{9}$
- $x = 4.69 \text{ cm}$, $r = 2.65 \text{ cm}$ 6. 3.9 kg
- 152.7×2.01 8. $5\frac{1}{2}$ square units 9. (a) 1160 cm^3 (b) 9420 cm^3 (c) 2260 cm^3
- 196 times 11. (a) 6.93 cm (b) 27.7 cm^2
- (a) Rotation, 90° anticlockwise about (2, 5) (b) Reflection in $x = -1$
(c) Reflection in $y = x$ (d) Enlargement, scale factor 3, centre (5, 3)
- (b) (i) Rotation 180° , centre (3, 1) (ii) Enlargement, scale factor 3, centre (4, 5)
- (a) Not correct: there is no correlation
(b) Teacher's theory is wrong. Those who watched more television did better in the tests.