

3. (a) cone (b) cuboid (c) triangular prism

4. (a) to let rain run off the roof (b) to stack easily (c) they are less likely to fall

Page 154 1. (a) height (b) flat (c) straight

3. (i) a, b (ii) b (iii) c, d, e (iv) a, b, c, d, e

Page 155 1.

cube	6	12	8	3	Y
cuboid	6	12	8	3	Y
prism	5	9	6	3	Y
pyramid	5	8	5	(i) 3 (ii) 4	Y
tetrahedron	4	6	4	3	Y
cylinder	3	2	0	0	N
cone	2	1	1	0	N
sphere	1	0	0	0	N

2. (a) 3 (b) pyramid (c) 3 (d) cone

Page 156 2. (a) cuboid (b) rectangle (c) 3 pairs (d) 15cm x 3cm 15cm x 4.5cm 3cm x 4.5cm (e) 23cm x 16cm

3. (a) 3 pairs (b) 4 more (c) 34cm x 25cm

Chapter 37 Data Data sets

Page 157 3. (a) (i) Red Rovers (ii) Fairweather (b) Acorn Villa, Rock Rovers, Castle Blues (c) 8 (d) 1 (e) 11
(f) Wanderers = 22, Fairweather = 21, Briar Celtic = 14 (g) they only conceded 32 goals.

Page 158 1. (b) 20 (c) 6 (d) 25 (e) 7 (f) 8 (g) 17 (h) 15

2. (a) $\div 4 = 6$ (b) $\div 3 = 11$ (c) $\div 4 = 10$ (d) $\div 5 = 10$ (e) $\div 6 = 26$ (f) $\div 3 = 37$ (g) $\div 5 = 25$ (h) $\div 7 = 41$

3. (a) 228 (b) 73 (c) 144 (d) 107 (e) 248 (f) 880, 4

4. (a) 40kg (b) 40kg (c) 40kg

Page 159 6. (a) average 42 (b) 7 (c) Ballyfort

7. (a) Ben €17.55, Paula €18.40, Evan €18.95 (b) Ben €3.51, Paula €3.68, Evan €3.79

(c) week 1 €11.70, week 2 €9.75, week 3 €10.20, week 4 €11.85, week 5 €11.40

(d) week 2 €3.25, week 3 €3.40, week 4 €3.95, week 5 €3.80 (e) €54.90

9. (a) 36 (b) 9

10. (a) 68 (b) 19

11. 9, 15, 16, 16

12. 23

Page 160 1. (a) 5 (b) fair = 6, light b. = 9, dark b. = 8, red = 3, black = 4

(c) fair = 72°, light b. = 108°, dark b. = 96°, red = 36°, black = 48° (d) fair and light brown

(e) 10% (f) 20%

2.

pupils	9	10	12	18	20	24
angle	40°	36°	30°	20°	18°	15°

3. (a) 15° (b) (i) 30° (ii) 75° (iii) 120° (iv) 60° (v) 240° (c) (i) 3hrs (ii) 4hrs (iii) 6hrs (iv) 7hrs (v) 10hrs

Chapter 38 Capacity

Page 161 1. Top row: (a) 250ml (b) 10l (c) 125ml (d) 1l (e) 5l

Bottom row: (a) 100l (b) 5ml (c) 25ml (d) 2l (e) 1000l

2. (a) coffee mug (b) milk carton (c) kettle (d) large cooking pot (e) attic water tank

3. 125 drops

4. 8

5. 4l

6. 5 times

7. 8 days

8. (a) it's full (b) mixed 5 litres water with ½ litre of weedkiller

9. 28½ weeks

Page 162 1. (a) 300ml (b) 10ml (c) 0.1l (d) 0.01l (e) 3 times (f) 10 times

2. (a) (i) 950ml (ii) 0.95l (b) (i) 750ml (ii) 0.75l (c) (i) 150ml (ii) 0.15l (d) (i) 600ml (ii) 0.6l

3. (a) (i) 65ml (ii) 0.065l (b) (i) 93ml (ii) 0.093l (c) (i) 20ml (ii) 0.02l (d) (i) 15ml (ii) 0.015l

(e) (i) 32ml (ii) 0.032l (f) (i) 29ml (ii) 0.029l (g) (i) 5ml (ii) 0.005l (h) (i) 7ml (ii) 0.007l

(i) (i) 9ml (ii) 0.009l (j) (i) 3ml (ii) 0.003l

Page 163 1. (a) 25ml (b) red = 675ml purple = 750 orange = 825ml blue = 875ml green = 950ml

(c) (i) green (ii) red (iii) orange (d) purple (e) orange (f) purple

Practical tasks: 2. Solid ice melts into a liquid.

3. 568ml = 1pint

5. (d)

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(a) Lists A (ii) (e), B (i) (c), C (ii) (b), D (v) (d), E (iv) (a) (b) Lists A (iii) (d), B (v) (a), C (ii) (b), D (iv) (c), E (i) (e)