

- 1 (a) (i) One from 22, 24, 26, 28 A1
(ii) 21, 23, 24 or 21, 22, 25 A1
(b) (i) 27 A1
(ii) 27 is equal to 3 cubed A1
(c) (i) 22 A1
(ii) 22 is equal to 11×2 A1 6 marks
- 2 (a) (i) Perimeter = $4 + 3 + 4 + 3$ M1
14cm A1
(ii) Area = $4\text{cm} \times 3\text{cm}$ M1
 12cm^2 A1
(b) 6/12, 50% M1A1
(c) two squares shaded A1
(d) 3/9 M1
1/3 A1cao 9 marks
- 3 (a) 3460 A1
(b) (i) $3460 + 570$ M1
4030 A1
(ii) 1 hour + 15 min + 13 min M1
1 hour 28 min A1
(iii) 36000 A1
(c) $570 \div 57$ M1
10 A1 8 marks
- 4 (a) (i) Rectangle, Square A1 A1
(ii) Cuboid A1
(b) $2 \times 1 \times 1$ M1
 2cm^3 A1
(c) Horizontal line of symmetry drawn **only** A1 6 marks
- 5 (a) 1 2 3 4 4 5 6 6 7 10 11 11 12 14 15 A1
(b) 6 metres A1
(c)
- | Height in metres | Frequency |
|------------------|-----------|
| 1 - 5 | 6 |
| 6 - 10 | 4 |
| 11 - 15 | 5 |
- deduct one mark for each mistake A3 5 marks
- 6 (a) (4, 4) A1
(b) (i) (-4, 4) correctly marked A1
(ii) 8cm or units A1
(c) (0, 4) A1
(d) (i) 6.1 cm (or rounding to this) or units A1 ft
(ii) 6.1×50 M1
305m A1 ft 7 marks
[½ size:]
- 7 (a) $30 \times \text{£}3 + 60 \times \text{£}3.50$ M1
£300 A1
(b) $90 \times \text{£}1.10$ M1
£99 A1 4 marks

8	(a)	$9 + 5 + 3 + 5 + 10 + 7 + 5 + 6 + 5 + 3 = 58$ $58 \div 10$ 5.8	M1 M1 A1	
	(b)	5	A1	4 marks
9	(a)	$15x$	A1	
	(b)	(i) $x = 4$ (ii) $3x + 14 = 17$ $x = 1$	A1 M1 A1	
	(c)	17	A1	5 marks
10	(a)	27, 39, 45	A1 for 1 out of 3	
	(b)	(i) 8 (ii) 100 (iii) 8	A2 A1 A1 A1	5 marks
11	(a)	(i) Isosceles (ii) Equilateral	A1 A1	
	(b)	(i) 1 (ii) 3	A1 A1	4 marks
12	(a)	1500×7 10500	M1 A1	
	(b)	Area of base = $50\text{cm} \times 20\text{cm}$ 1000cm^2 Volume = Base area \times Height Height = $3000\text{cm}^3 \div 1000\text{cm}^2$ 3cm	M1 M1 M1 M1 A1	7 marks
13	(a)	$1/20$	A1	
	(b)	$1 - 1/20$ $19/20$	M1 A1	3 marks
14	(a)	$7r + 5s - 3s$ $7r + 2s$	M1 A1	
	(b)	$x(x+7)$	A1	
	(c)	(i) $3x + 5 = 9.5$ $3x = 4.5$ $x = 1.5$ (ii) $18 + 3x = 9x$ $18 = 6x$ $x = 3$	M1 M1 A1 M1 M1 A1	9 marks
15		$900 \div 100$ 9	M1 A1	2 marks
16	(a)	50km	A1	
	(b)	(i) 3 hours (ii) 8 hours (iii) 25km per hour (iv) C to D	A1 A1 A1 A1	5 marks
17	(a)	1000m	[$\frac{1}{2}$] $3.3\text{cm} \rightarrow \times 200 = 660\text{m}$	A1
	(b)	$047^\circ \pm 1^\circ$	A1	2 marks

18	(a)	(i)	1200g	A1	
		(ii)	1200g	A1	
		(iii)	24 eggs	A1	
		(iv)	4 pints	A1	
	(b)	(i)	$43 - 3 - 7 - 7 - 7 - 3 = 16$	M1	
			$16\text{cm} \div 4 = 4\text{cm}$	A1	
		(ii)	$4 \div 2 = 2$	M1	
			$2^2 \times 3.14$ 12.56cm^2	M1 A1	9 marks

Total: 100 marks