Answer key and mark scheme

54 marks

M1 is for a correct method. A1 is for a correct answer after correct method. An answer with no working scores full marks only where the question is worth 1 mark.

Q	Answer	Marks	Working and marking notes
1	8,315	1	
2	3,652	1	
3	864	1	36 × 20 = 720, 36 × 4 = 144, total 864
4	156	1	
5	$1\frac{3}{8}$	1	6/8 + 5/8 = 11/8
6	$\frac{3}{4}$	1	5/2 - 7/4 = 10/4 - 7/4 = 3/4
7	27	1	
8	84	1	10% = 24, 30% = 72, 5% = 12, total 84
9	51	1	85 ÷ 5 = 17, 17 × 3 = 51
10	48,000	1	
11	0.625	1	
12	24	1	
13	12	1	
14	76	1	49 + 27
15	7°C	1	
16	1.2	1	
17	$n = 8$	1	39 - 7 = 32, 32 ÷ 4 = 8
18	2 : 3	1	Divide both by 12
19	1,650 ml	1	2,500 - 850
20	7	1	Order: 3, 4, 7, 9, 12
21	£2.65	2	3 × 2.45 = 7.35 (M1). 10 - 7.35 = 2.65 (A1)
22	11:25	2	08:47 + 2 h = 10:47 (M1), + 38 min = 11:25 (A1)
23	60	2	5 + 3 = 8 parts, 96 ÷ 8 = 12 (M1), 12 × 5 = 60 (A1)
24	192 cm^2	2	Width + length = 32, so width 8 and length 24 (M1). 8 × 24 = 192 (A1)
25	£63	2	15% of 80 = 12, so £68 (M1). 68 - 5 = 63 (A1)
26	12	2	Total = 5 × 12 = 60 (M1). 60 - 48 = 12 (A1)
27	65°	2	47 + 68 = 115 (M1). 180 - 115 = 65 (A1)
28	$\frac{4}{15}$	2	6/15 + 5/15 = 11/15 (M1). 1 - 11/15 = 4/15 (A1)
29	(a) Friday (b) 12 (c) 15	3	(a) tallest bar. (b) 21 - 9 = 12. (c) 12 + 18 + 9 + 15 + 21 = 75, 75 ÷ 5 = 15
30	48 cm^2	3	Rectangle 10 × 6 = 60 (M1), remove notch 4 × 3 = 12 (M1). 60 - 12 = 48 (A1). Splitting into two rectangles also earns full marks.
31	59	2	Rule is +6 each time, so 6*n* - 1 (M1). 6 × 10 - 1 = 59 (A1). Continuing the list to 10 terms is also accepted.
32	240 km	2	Speed = 150 ÷ 2.5 = 60 km/h (M1). 60 × 4 = 240 (A1)

Q	Answer	Marks	Working and marking notes
33	$^1/_2$	2	10 counters, 5 are not blue (M1). 5/10 = 1/2 (A1)
34	£1.90	2	2 rulers = £1.60 (M1). (7.30 - 1.60) ÷ 3 = 1.90 (A1)
35	2,250 cm^3	2	Height of water 7.5 cm, 20 × 15 × 7.5 = 2,250 (or 3,000 × 3/4). M1 for method, A1 for answer.
36	11	2	52 + 14 = 66 (M1). 66 ÷ 6 = 11 (A1)

Total: 54 marks. Score: _____