2009 Arithmetic 2 Answer Sheet

1. Cakes £2-32 cheese £3-21 beef £6-45 Total £11-98

2. (a) 8 (b) 10.4 (c) 7

3 (a) $1^2 + 2^2 + 3^2 + 4^2 = 30 = 1/6 \times 4 \times 5 \times 9$

(b) $1240 = 1/6 \times 15 \times 16 \times 31$

4. see diagram

5. B E A C D

6. 9, 11, 1 1 2 4 and 0 0 4 0 or 0 2 2 2 and 0 1 3 1

7.

A	B	C
2	0	0
0	2	0
0	0	2
1	1	0
1	0	1
0	1	1

A	B	C
3	0	0
0	3	0
0	0	3
2	1	0
2	0	1
1	2	0
0	2	1
1	0	2
0	1	2
1	1	1

8. (a) 25 (b) 8.8 (c) 15

9. (a) 6 (b) 7 (c) 9 (e) 1

(d)

	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	1	3	5	7	9
3	3	6	9	1	4	7	10	2	5	8
4	4	8	1	5	9	2	6	10	3	7
5	5	10	4	9	3	8	2	7	1	6
6	6	1	7	2	8	3	9	4	10	5
7	7	3	10	6	2	9	5	1	8	4
6	6	5	2	10	7	4	1	9	6	3
9	9	7	5	3	1	10	8	6	4	2
10	10	9	8	7	6	5	4	3	2	1

10. 7036548129

11. (a) 10 (b) 30 (c) 75 (d) 140 (e) 165

12. (a) 18 (b) 3 (c) 25 (d) 12 (e) 20