

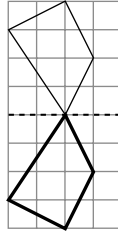
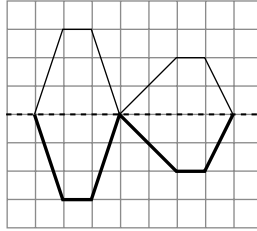
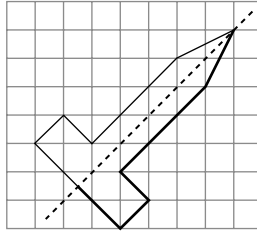
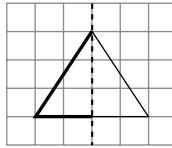
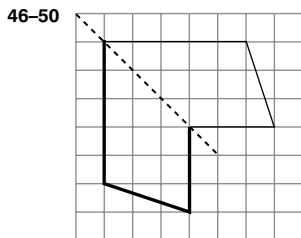
Any answer that requires units of measurement should be marked wrong if the correct units have not been included.

## Paper 1

- 1  $\frac{3}{12}, \frac{1}{4}$
- 2  $\frac{4}{12}, \frac{1}{3}$
- 3 50
- 4  $\frac{1}{5}, \frac{1}{10}$
- 5  $\frac{1}{10}$
- 6 5000
- 7 1500
- 8 Play area
- 9 50
- 10 58
- 11 57
- 12 21
- 13 24
- 14 60
- 15 16
- 16 9
- 17 16
- 18 32

- 19  $\frac{5}{4}, \frac{11}{4}$
- 20  $\frac{8}{4}, \frac{11}{4}$
- 21  $\frac{9}{5}, \frac{13}{6}$
- 22  $\frac{1}{2}, \frac{1}{5}$
- 23  $\frac{1}{2}, \frac{1}{5}$
- 24  $\frac{1}{5}, \frac{1}{8}$
- 25  $\frac{1}{2}, \frac{1}{5}$
- 26  $\frac{1}{5}, \frac{1}{8}$
- 27  $\frac{3}{7}, \frac{1}{8}$
- 28  $\frac{2}{5}, \frac{1}{8}$
- 29  $\frac{2}{5}, \frac{1}{8}$
- 30  $\frac{1}{8}$

- 31 20 600
- 32 336
- 33 Thursday
- 34 7
- 35 Wednesday and Friday
- 36 Monday
- 37 Saturday
- 38 4
- 39 ×
- 40 -
- 41 +
- 42 ÷
- 43 Nine hundred and eighty-seven thousand, six hundred and thirty-one
- 44 8.8
- 45 28.4

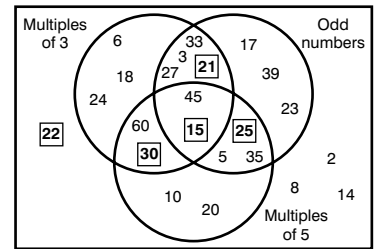


## Paper 2

- 1 24
- 2 4
- 3 12
- 4  $\frac{1}{3}$
- 5  $\frac{1}{6}$
- 6  $\frac{1}{2}$
- 7 34.7
- 8 1.6
- 9 86.9
- 10 67.1
- 11 74.8
- 12 6.1
- 13-16 b, c, e, g
- 17 Impossible
- 18 Unlikely
- 19 Certain
- 20 Likely
- 21  $\frac{3}{10}$
- 22  $\frac{9}{100}$
- 23  $2\frac{37}{100}$  or  $\frac{237}{100}$
- 24 20
- 25 80
- 26 -3.5 or  $-3\frac{1}{2}$
- 27 0.5 or  $\frac{1}{2}$
- 28 27

- 29 45
- 30 38
- 31 8
- 32  $\frac{5}{6}$
- 33 14
- 34 12
- 35 1.2
- 36 6
- 37 20
- 38 16
- 39 4
- 40 15
- 41 1075
- 42 3160
- 43 1006
- 44 158
- 45 43

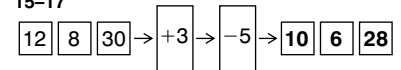
46-50



## Paper 3

- 1 1472
- 2 34.52
- 3 52.31
- 4 1700
- 5 1
- 6 4600
- 7 1
- 8 6100
- 9 13100
- 10 7
- 11 6
- 12 15
- 13 8
- 14 36

15-17



- 18 50
- 19 23
- 20 1
- 21  $\frac{1}{5}$
- 22 30
- 23 h
- 24 c
- 25 a
- 26 e
- 27 b
- 28 g
- 29 f
- 30 40
- 31 57
- 32  $1\frac{1}{2}$  or 1.5

- 33 34
- 34 847
- 35 438
- 36 361
- 37 375
- 38 486
- 39 8.8
- 40 1 h 28 min
- 41 9
- 42 81
- 43  $\frac{4}{5}$
- 44  $\frac{7}{10}$
- 45  $\frac{99}{100}$
- 46  $\frac{39}{100}$
- 47  $3\frac{1}{2}$  or 3.5
- 48 6
- 49  $4\frac{1}{2}$  or 4.5
- 50 2

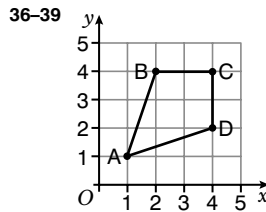
### Paper 4

- 1 5
- 2 4
- 3-4 3 m long,  $\frac{1}{2}$  or 0.5 m wide
- 5 8
- 6  $1\frac{1}{2}$  or 1.5
- 7 Bed of tomatoes
- 8 48
- 9 90
- 10 56
- 11 6
- 12 9
- 13 7
- 14 1 pint
- 15 3 km
- 16 15
- 17 16
- 18 40
- 19-20 6, 9
- 21 5
- 22 65
- 23 103
- 24 7
- 25 9.3
- 26 0.8
- 27 B
- 28 C
- 29 C
- 30 A
- 31 18
- 32 5
- 33 4200
- 34 46
- 35 85
- 36 5
- 37 60
- 38 45
- 39 20
- 40 30000
- 41 29600
- 42 29590
- 43 5
- 44 7

- 45-46 8, 2
- 47 8000
- 48 12000
- 49 4000
- 50 11

### Paper 5

- 1-2 46, 68
- 3-4  $7, 8\frac{1}{2}$
- 5-6 2.85, 2.75
- 7-8 70, 52
- 9-10 30, 90
- 11-12 8.06, 0.086
- 13 7
- 14 35
- 15 14
- 16 Black
- 17 <
- 18 <
- 19 =
- 20 8000
- 21 7500
- 22 7550
- 23 975 310
- 24 Nine hundred and seventy-five thousand, three hundred and ten
- 25 06:05
- 26 00:15
- 27 19:30
- 28 23:59
- 29 6
- 30 49
- 31 64
- 32 >
- 33 =
- 34 >
- 35 3

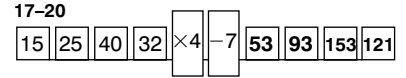


- 40 1
- 41  $1\frac{3}{8}$
- 42  $1\frac{9}{10}$
- 43 100
- 44 250
- 45 7
- 46 15
- 47 198
- 48 138
- 49 37
- 50 121

### Paper 6

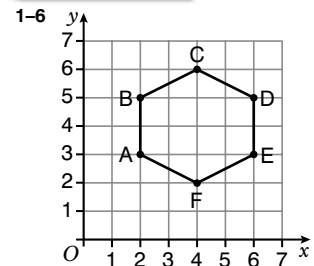
- 1 36
- 2 18
- 3 18

- 4 37
- 5 16
- 6 5
- 7 18
- 8 12
- 9 44
- 10 45
- 11 112
- 12 45
- 13 95
- 14 82
- 15 288
- 16 230



- 21 2
- 22 4
- 23 9400
- 24 19.40
- 25 19.80
- 26 19.60
- 27 2
- 28 0.40
- 29  $66 \div 9$
- 30  $93 \div 10$
- 31  $38 \div 7$
- 32  $35 \div 8$
- 33 12:11 p.m.
- 34 30
- 35 +
- 36 -
- 37 ÷
- 38 +
- 39 ×
- 40 +
- 41 F
- 42 B
- 43 A
- 44 A
- 45 D
- 46 C
- 47 8
- 48 25
- 49 12
- 50 72

### Paper 7



- 7 (Irregular) Hexagon
- 8 2
- 9 7

- 10 8  
11 4  
12 5  
13 15

14–21

Class	Number who bring lunch to school	Number who buy lunch at school
1	8	10
2	11	3
3	10	11
4	14	8

- 22  $\frac{1}{4}$  or  $\frac{90}{360}$   
23  $\frac{1}{8}$  or  $\frac{45}{360}$   
24 25%  
25  $\frac{5}{8}$  or  $\frac{225}{360}$   
26 400  
27 28  
28 13  
29 23  
30 40  
31 10  
32 20  
33 5  
34 2  
35 1  
36 None or 0  
37 2  
38 51  
39 9  
40 2  
41 9:20  
42 42  
43 9:04  
44 9:08  
45 9:16  
46 9:28  
47 206  
48 5  
49 5500  
50 600

### Paper 8

- 1 16  
2 20  
3 151  
4 28  
5 32  
6 Acute  
7 116  
8 Obtuse  
9 32  
10 Acute  
11 180  
12 Isosceles  
13 2  
14 1  
15 3

- 16 0  
17 -3  
18 -9  
19 3  
20 15.34  
21 6.11  
22 3.85  
23 93  
24–25 Walking and car  
26 8  
27 12  
28  $\frac{1}{3}$   
29  $\frac{1}{6}$   
30 e.g. 1, 4, 6  
31 e.g. 2, 3, 6  
32 e.g. 2, 4, 5  
33 6  
34  $\frac{7}{100}$   
35  $6\frac{1}{2}$   
36  $2\frac{9}{10}$   
37  $3\frac{1}{4}$   
38  $1\frac{3}{4}$   
39 142.7  
40 1.742  
41 0.7124  
42 14.72  
43 421.7  
44 <  
45 >  
46 =  
47 >  
48 <  
49 >  
50 19.2

### Paper 9

- 1 White  
2 Grey  
3 White  
4 2500 cm<sup>2</sup>  
5 +  
6 -  
7 -  
8 +  
9 -  
10 ×  
11 ×  
12 ÷  
13 942  
14 2  
15 3  
16 18  
17 6  
18 8  
19 36  
20 12 cm by 3 cm  
21 43  
22 1  
23 3  
24 4

- 25 7  
26 C  
27 14  
28 9  
29 60  
30 120  
31 30  
32 240  
33 122  
34 225  
35 57  
36 91  
37 12  
38 6  
39–41 May, October and November  
42–43 June to September  
44 November  
45 No  
46–47 May and June  
48 9  
49 1  
50 5000

### Paper 10

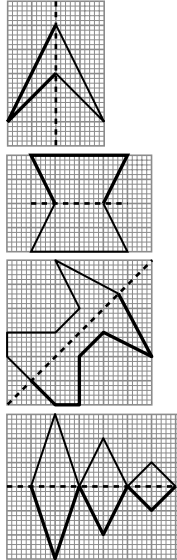
- 1 Friday  
2 50  
3 10  
4 5  
5  $\frac{2}{5}$   
6 92  
7 23  
8 69  
9–12
- 
- 13 2  
14
- 
- 15–16 40, 64  
17–18 16, 32  
19 80  
20 88  
21 234 678  
22 Two hundred and thirty-four thousand, six hundred and seventy-eight  
23–27 4.111, 4.11, 4.101, 4.1, 4.01  
28 12

- 29 2 h 50 min
- 30 2.99
- 31 1.60
- 32 Ali
- 33 Radeep
- 34 Alex
- 35 Radeep
- 36 Term 1
- 37 11 h 30 min
- 38 14
- 39 5
- 40 17
- 41 10
- 42 22
- 43 15
- 44 19
- 45 30
- 46 27
- 47 3
- 48 1724
- 49 3120
- 50 47.88

### Paper 11

- 1 12
- 2 15
- 3 24.5 or  $24\frac{1}{2}$
- 4 23
- 5 20.5 or  $20\frac{1}{2}$
- 6 25
- 7 Seventeen thousand, four hundred and fifty-one
- 8 5.77
- 9 32.63
- 10 3992.8
- 11 16.739
- 12 936.17
- 13 6.7139
- 14 9136.7
- 15 10
- 16 5
- 17 3
- 18 8
- 19 10
- 20 5000
- 21 4800
- 22 4810
- 23 14.00
- 24 13.60
- 25 Jeff
- 26 Omar
- 27-28 2, 13
- 29-34 2, 15, 3, 10, 5, 6
- 35 24
- 36 32.70
- 37 34.50
- 38 33.60
- 39 A
- 40 30
- 41-46 a, b, c, e, g, h
- 47-48 3.25, 3.5
- 49-50  $1, \frac{1}{2}$  or 0.5

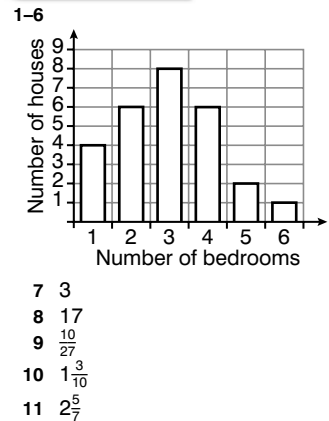
### Paper 12

- 1 21
- 2 9
- 3 11
- 4 2
- 5 10
- 6 3
- 7 09:27 or 9:27 a.m.
- 8 36
- 9 83
- 10 0.72
- 11 72
- 12 63
- 13 72
- 14 54
- 15 63
- 16 20
- 17 8
- 18 0.43
- 19 0.13
- 20 0.6
- 21 0.07
- 22 23
- 23 16
- 24 12 000
- 25 12 200
- 26 12 190
- 27 36
- 28 28
- 29 39
- 30 37
- 31 33
- 32-35 56, 53, 7, 6
- 36-39 
- 40 5
- 41 30
- 42 40
- 43 60
- 44 60
- 45 30
- 46 70
- 47-50 123, 163, 307, 331

### Paper 13

- 1 32
- 2 233
- 3 52
- 4 352
- 5 452
- 6 652
- 7 5
- 8 5
- 9 6.3
- 10 0.3
- 11 20 015
- 12 36 cm<sup>2</sup>
- 13 30 cm
- 14 24 m
- 15 36 m<sup>2</sup>
- 16 212
- 17 4 h 20 min
- 18-21 30, 36, 42 and 48
- 22-24 27, 36 and 45
- 25 3
- 26 4
- 27  $\frac{1}{2}$  or 0.5
- 28 10
- 29  $\frac{1}{10}$
- 30 15
- 31 4
- 32 50
- 33 12:10
- 34 45
- 35 315
- 36 135
- 37 SE
- 38 E
- 39 180
- 40 224
- 41 57
- 42 15
- 43 60
- 44-45 20, 15
- 46-47 40, 30
- 48-49 8, 6
- 50 10:49 a.m.

### Paper 14

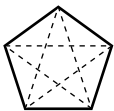


- 12  $1\frac{7}{10}$   
 13  $1\frac{4}{5}$   
 14  $2\frac{1}{3}$   
 15 90  
 16 3  
 17 9  
 18 3  
 19 5  
 20 3

21–26 1 and 32, 2 and 16, and 4 and 8

- 27 10  
 28 15  
 29 52 971  
 30 79 315  
 31 95 713.2  
 32 297 135  
 33 325 179  
 34 9  
 35 12  
 36 17  
 37 10  
 38 19  
 39 23  
 40 21  
 41 3.6  
 42 14  
 43 4  
 44 18  
 45 11:55  
 46 13:05  
 47 Regular

48

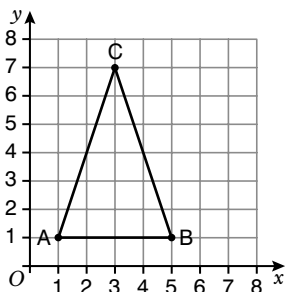


- 49 Pentagon or regular pentagon  
 50 44

### Paper 15

- 1 50  
 2 20  
 3 60  
 4 85  
 5 40  
 6 66  
 7 5  
 8  $1\frac{1}{5}$   
 9  $3\frac{3}{5}$   
 10 60  
 11 20

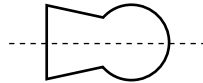
12–14



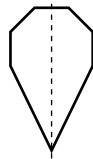
- 15 Isosceles  
 16 1  
 17 No  
 18 Yes  
 19 Yes  
 20 No  
 21 No  
 22 6000  
 23 5600  
 24 5640  
 25 250  
 26 250  
 27 700  
 28 500  
 29 300  
 30 150  
 31 5788  
 32 5321  
 33 5321  
 34 467  
 35  $\frac{7}{2}$   
 36  $2\frac{1}{5}$   
 37  $\frac{8}{3}$   
 38  $\frac{11}{7}$   
 39  $\frac{27}{5}$

40  $1\frac{3}{4}$   
 41–42  $\frac{4}{12}, \frac{6}{18}$

- 43 9000  
 44 200  
 45



46



- 47 375  
 48 933  
 49 485  
 50 602

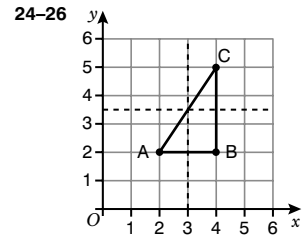
### Paper 16

- 1 309  
 2 311  
 3 309  
 4 321  
 5 Jane  
 6 Stephen  
 7 10  
 8 Melanie  
 9 79  
 10 English  
 11 History  
 12 245  
 13 20.5  
 14 2450

- 15 20 450  
 16 245 000  
 17 110  
 18 150  
 19 Saturday  
 20 40  
 21–22 Monday and Thursday  
 23 610  
 24 True  
 25 False  
 26 False  
 27 False  
 28 15.75  
 29 6.75  
 30 4361  
 31 56  
 32 20.2  
 33 2.58  
 34 2.87  
 35 12.48  
 36 22.96  
 37–38  $32 \div 7, 28 \div 8$   
 39–40  $76 \div 8, 44 \div 5$   
 41 718  
 42 7.20  
 43 17  
 44 4 h 42 min  
 45 0.34  
 46 4.95  
 47  $5\frac{3}{4}$  or 5.75  
 48–50 875, 625, 1000

### Paper 17

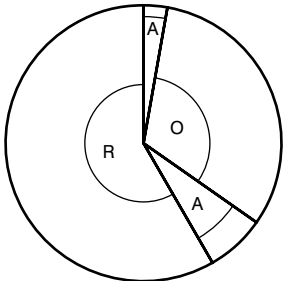
- 1 250  
 2 200  
 3–4 06:00, 09:00  
 5–6 9:00, 3:00  
 7 21:00  
 8 90  
 9–10 8, 4  
 11 20:30  
 12 00:15  
 13 07:15  
 14 15  
 15 9712  
 16 0.9  
 17 66  
 18 45  
 19 32  
 20 36  
 21 55  
 22 Charwood  
 23 60  
 24–26



- 27 0  
 28 B  
 29-31 5, 6, 9  
 32-34 b, d, f  
 35-36  $11, 11\frac{1}{4}$   
 37-38 0.635, 0.0635  
 39-40 166, 155  
 41 8282  
 42 14616  
 43 58  
 44 96.07  
 45 27  
 46 5  
 47 9.95  
 48 174 000  
 49 72  
 50 38.7

### Paper 18

- 1 30  
 2 6  
 3 9  
 4-7 1 and 14, and 2 and 7  
 8-13 1 and 28, 2 and 14, and 4 and 7  
 14 30  
 15 60  
 16-17 15 and 30  
 18-19 9 and 25  
 20 0.2  
 21 0.7  
 22 0.11  
 23  $\frac{3}{100}$   
 24  $\frac{3}{25}$   
 25 3.945  
 26 15.063  
 27 0.187  
 28-31



- 32  $26 \times 3 = 156 \div 2$   
 33  $80 - 14 = 6 \times 11$   
 34  $12 + 75 = 3 \times 29$   
 35  $63 \div 9 = 105 - 98$   
 36 5  
 37-38 10, 5  
 39 15  
 40 12  
 41 2  
 42 8:57  
 43 40  
 44 113  
 45 9  
 46 200

- 47 8500  
 48 5  
 49 300  
 50 1.60

### Paper 19

- 1 5  
 2 13  
 3 43  
 4 10  
 5 <  
 6 =  
 7 >  
 8 >  
 9  $\frac{1}{4}$   
 10  $\frac{1}{8}$   
 11  $\frac{1}{8}$   
 12  $\frac{1}{20}$   
 13-14 8 and 9  
 15 6  
 16 13.5  
 17 72  
 18 32.20  
 19 28.67  
 20 171 200  
 21 599 200  
 22 2.3  
 23 2.8  
 24 17  
 25 17  
 26 2  
 27 21  
 28 5  
 29 20  
 30 4  
 31 35  
 32 Fifty-five thousand and fifty  
 33 75  
 34 08:40  
 35 10:35  
 36 27  
 37 13:20  
 38 13:45  
 39-40 3, 8  
 41 36  
 42 75  
 43 4  
 44-45 Tuesday and Saturday  
 46 43  
 47 19  
 48 2870  
 49 2900  
 50 3000

### Paper 20

- 1 3267  
 2 11  
 3 56  
 4 18  
 5 6  
 6 12

- 7 5  
 8 13  
 9 52  
 10 27  
 11 34  
 12 Acute  
 13 7212  
 14 7940  
 15 0.4  
 16 600  
 17 0.5  
 18 52.6  
 19 1640  
 20 1.8

×	3	6	9
2	6	12	18
4	12	24	36
9	27	54	81

- 26 55  
 27 16  
 28 33

×	(3)	(7)	(11)
(5)	15	35	
(7)		49	77
(9)	27		99

- 35-36 7, late  
 37-38 14, early  
 39-40 8, early  
 41 90  
 42 90  
 43-44 Wednesday and Sunday  
 45 Thursday  
 46 20  
 47 40  
 48 240  
 49  $\frac{1}{6}$   
 50 22

### Paper 21

- 1  $\frac{1}{2}$  litre = 500 ml  
 2 12 g > 0.01 kg  
 3 3.9  
 4 12.6  
 5 7  
 6-7 12, 9  
 8 2  
 9-14

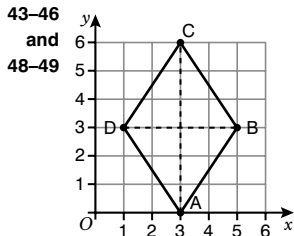
	Side	Perimeter	Area
Square 1	9 cm	36 cm	81 cm <sup>2</sup>
Square 2	7 m	28 m	49 m <sup>2</sup>
Square 3	6 mm	24 mm	36 mm <sup>2</sup>

- 15 4  
 16 11  
 17 7  
 18 0.21  
 19 0.34  
 20 1.73

21–29

	A	B	C
Number of faces	Odd	Odd	Odd
Number of vertices	Odd	Even	Even
Number of edges	Even	Odd	Odd

- 30 8:46
- 31 9:18
- 32 9:50
- 33 8.2
- 34 900
- 35 19.829
- 36 56.413
- 37 1356.4
- 38 456.31
- 39 31 456.0
- 40 69
- 41 4.48
- 42 3



- 47 2
- 50 (3,3)

### Paper 22

- 1 408
- 2–4 28, 35 and 42
- 5 20
- 6 9
- 7 10
- 8 14.64
- 9 14 637
- 10 760 r 8
- 11 Tonbridge
- 12 8
- 13 Liskeard
- 14 Liskeard
- 15–16 Lampeter and Tonbridge
- 17
- 18
- 19
- 20  $2\frac{1}{4}$
- 21  $1\frac{3}{8}$
- 22  $1\frac{1}{4}$
- 23  $3\frac{1}{2}$
- 24  $1\frac{5}{6}$
- 25 5
- 26–27 26, 13
- 28  $\frac{1}{5}$  or  $\frac{3}{15}$

- 29 60%
- 30 16
- 31–35 3.52, 3.51, 3.25, 3.15, 3.05
- 36 1418
- 37 London to Rome
- 38 30
- 39 1736
- 40 0.33
- 41 0.54
- 42 1116
- 43 566
- 44 542
- 45 11
- 46–48 26, 27 and 28
- 49 2.5
- 50 7

### Paper 23

- 1–2 12, 27
- 3–4 35, 17
- 5–6 7.5, 17.5
- 7–8 999, 0.0999
- 9–10 4, 36
- 11 0.39
- 12 13
- 13 26
- 14 1 h 17 min
- 15 1 h 40 min
- 16 Bus 1
- 17 17
- 18 3.89
- 19 29.01
- 20 3758.4
- 21 307
- 22 7:00 p.m.
- 23 8:00 p.m.
- 24 11:30 a.m.
- 25 6:30 p.m.
- 26 48 100
- 27 39 100
- 28 29 300
- 29 53 400
- 30 89 100
- 31 4
- 32 108
- 33 100
- 34 Orange
- 35 15
- 36–37 Red and orange

38–46

	A	B	C
Number of faces	6	8	4
Number of vertices	8	12	4
Number of edges	12	18	6

- 47 0.311
- 48 0.009
- 49 2.622
- 50 42

# Answers to website paper

Paper 24 is free to download on the Bond website. (See page iv for details). The answers to this paper are given below.

## Paper 24

- 1 21
- 2 22
- 3 25
- 4  $\frac{3}{5}$
- 5  $\frac{1}{2}$
- 6  $\frac{1}{2}$
- 7 73
- 8 63
- 9 62
- 10 0.7
- 11 0.9
- 12 1.1
- 13 Fourteen thousand, nine hundred and seventeen
- 14 18.96
- 15 3.84
- 16 69.3
- 17 0.369
- 18 9.36
- 19 96.3
- 20 6.39

21–26

×	(4)	(8)	(3)
(5)	20	40	
(6)		48	18
(9)	36		27

- 27 10:23
- 28 11:49
- 29 17:07
- 30 8
- 31 37
- 32 63
- 33 10
- 34 50
- 35 20
- 36 320
- 37 258
- 38  $\frac{1}{7}$
- 39 12:04
- 40 Petra
- 41 Jamelia
- 42 Petra
- 43 6
- 44 11
- 45 Jamelia
- 46  $\frac{3}{8}$
- 47  $\frac{1}{2}$
- 48 25
- 49 75
- 50 2