Entrance Examination 2018

Arithmetic Section B

1.1) 13.20
1.2) 4.60
1.3) 8 and 4.40
1.4) 22.20

2a) 12, 15, 18

b) 11, 13, 17, 19

c) 16

d) 2x7 or 2, 7
1x14 or 1, 14

3)

| | Played | Won | Drawn | Lost | Points |
|---|---|---|---|---|---|
| A | 12 | 7 | **3** | 2 | **44** |
| B | 10 | 3 | **4** | **3** | 27 |
| C | **15** | **7** | 2 | 6 | 41 |
| D | 8 | **6** | **0** | **2** | 30 |

NB. for D can't have 3 5 0 as they all lost <u>at least one</u> game

4a) Perimeter= 18
Area= 20
Perimeter= 22
Area= 30
4b) 40
4c) 930

5a) 108
b) 4
c) 6
d) 4
e) 2

6a) 10
b) 21
c) 36

7a) 200
b) 2.7
c) 16.2
d) 8.6
e) 1.7
f) 14.1

8a) 15
b) 2
c) 1
d) 3
e) 2
f) 4
g) 8

9a) 1500
b) 1.8
c) 1.2
d) 2850

10a) Volume= 4000
Mass= 20
b) Volume= 108
Mass= 1.08
c) Volume= 500
Radius= 5
d) Volume= 32
Density= 100

11a and b)

| | | Men | Women | Boys | Girls | TOTAL |
|---|---|---|---|---|---|---|
| R1 | At Manchester | 80 | 20 | 40 | 60 | 200 |
| | 1st stop at Macclesfield | | | | | |
| R2 | Leaving the train | 30 | 4 | 18 | 36 | 88 |
| R3 | Still on the train | 50 | 16 | 22 | 24 | 112 |

c) 16