

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) 2×7 or 2, 7

1×14 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 at least one 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 | TO TAL |
|----|---|-----|-------|------|-------|-----------|
| R1 | At Manchester | 80 | 20 | 40 | 60 | 200 |
| | 1 st stop at Macclesfield | | | | | |
| R2 | Leaving the train | 30 | 4 | 18 | 36 | 88 |
| R3 | Still on the train | 50 | 16 | 22 | 24 | 112 |

c) 16

