HSC General Mathematics 2004
Quick Answers

Disclaimer

These answers are intended as a quick guide only. To save space there are no worked solutions or diagrams. For greater detail please refer to fully worked solutions.

Section 1

1	**B**
2	**B**
3	**D**
4	**A**
5	**D**
6	**C**
7	**D**
8	**B**
9	**C**
10	**C**
11	**B**
12	**C**
13	**C**
14	**A**
15	**A**
16	**D**
17	**A**
18	**C**
19	**B**
20	**A**
21	**D**
22	**A**

Section 2

Question 23

(a) (ii) 2.85 m^3.
(iii) 12 bags.
(iv) 8 m.

(b) (i) Cost = x + 115.
(ii) \$150.

(c) 6.75 m.

Question 24

(a) (i) 15 km/h.
(ii) February.
(iii) January to March.
(iv) High wind speed corresponds with a low number raindays (such as July – September), and low wind speed corresponds with a high number of raindays (such as February and March)

(b) (i) $\angle PAQ = 135°$.
(ii) 185°.
(iii) $\angle PAB \approx 73°$

(c) (i) Any number between 1 and 2.
(ii) 13.5%

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Question 25

(a) (i) $2600
(ii) $1404.

(b) (i) 6 ways.

(ii) $\frac{1}{9}$

(iii) $\frac{1}{6}$

(c) (ii) 170.

(iii) 85%.

(iv) $\frac{2}{15}$.

Question 26

(a) (i) 14%.
(ii) Approximately 714.
(iv) 8 hours.

(b) (i) 11°.

(ii) (2) Yes it is possible.

Question 27

(a) (i) $1162.50

(ii) $129 000.

(iii) $36 270.

(b) (i) $414.
(ii) 9 hours extra.

(c) He will reach his goal with an excess of $319.57.

Question 28

(a) (i) 32.

(ii) Lose 8 kg.

(b) (i) $C = kb^3$.

(ii) 0.05

(iii) No, she is incorrect.

(c) (i) $(170,55)$

(ii) Draw a line parallel to *AB*, one third of the way towards *C*.

(iii) (1) 187.5 cm.

(2) many valid answers, such as:

small sample, OR

heights and weights are not necessarily correlated,

etc.

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