



**Section A(2)**

3. Figure 2 shows the box-and-whisker diagram for temperatures of water (in °C) obtained in an experiment under various experimental settings.

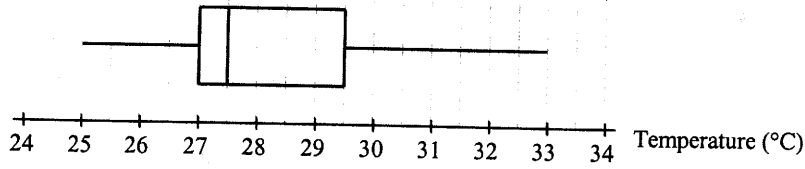


Figure 2

- (a) Find the median of the temperatures. (1 mark)

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- (b) Find the range and inter-quartile range of the temperatures. (4 marks)

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- (c) Describe the distribution of the temperatures. (2 marks)

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**Section A(2)**

3. Figure 2 shows the box-and-whisker diagram for temperatures of water (in °C) obtained in an experiment under various experimental settings.

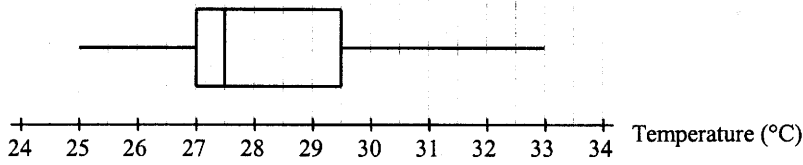


Figure 2

- (a) Find the median of the temperatures. (1 mark)

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2006 CE Mathematics Sample Questions

Numerical Answers

Section A(1)

2. (a) \$110  
(b) 0.917%

Section A(2)

3. (a) 27.5°C  
(b) Range = 8°C  
Inter-quartile range = 2.5°C

4. (a)

	Number of white dots	Number of black dots
4th picture	4	6
5th picture	9	6
6th picture	9	12

- (b) (i) The number of white dots in the  $(2n - 1)$ th picture =  $n^2$   
The number of white dots in the  $(2n)$ th picture =  $n^2$

Section B

5. (a) (i)  $\frac{1}{2}ar$   
(b) (i)  $x^2 + y^2 - 2x - 2y + 1 = 0$



甲部(2)

3. 圖 2 顯示在一實驗中，水在不同試驗環境下的溫度（以 °C 為單位）的框線圖：

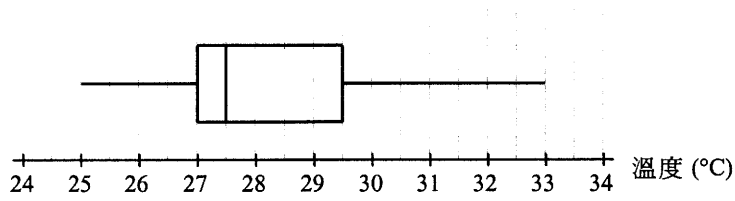


圖 2

(a) 求這些溫度的中位數。 (1 分)

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(b) 求這些溫度的分佈域及四分位數間距。 (4 分)

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(c) 描述這些溫度的分佈情況。 (2 分)

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## 數值答案

## 甲部(1)

2. (a) \$110  
(b) 0.917%

## 甲部(2)

3. (a) 27.5°C  
(b) 分佈域 = 8°C  
四分位數間距 = 2.5°C

4. (a)

	白子的數目	黑子的數目
第 4 幅圖形	4	6
第 5 幅圖形	9	6
第 6 幅圖形	9	12

- (b) (i) 第  $(2n-1)$  幅圖形的白子數目 =  $n^2$   
第  $(2n)$  幅圖形的白子數目 =  $n^2$

## 乙部

5. (a) (i)  $\frac{1}{2}ar$   
(b) (i)  $x^2 + y^2 - 2x - 2y + 1 = 0$