

爱德思  
Statistics 1  
分类真题  
2014-2022 册

A Level Clouds 出品

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# **Chapter 1**

## **Measures and Representations of Data**

- | <b>Body weight<br/>(kg)</b>             | 75–79 | 80–84 | 85–89 | 90–94 | 95–99 | 100–104 | 105–109 |
|---|-------|-------|-------|-------|-------|---------|---------|
| <b>Number<br/>of Players<br/>(2010)</b> | 1     | 2     | 2     | 4     | 3     | 2       | 1       |

- |          | Estimate in 1990 | Estimate in 2010 |
|----------|------------------|------------------|
| Mean     | 83.0             | $a$              |
| Median   | 82.0             | $b$              |
| Variance | 44.0             | $c$              |

(6)

**(2)**

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8. A manager records the number of hours of overtime claimed by 40 staff in a month.

The histogram in Figure 1 represents the results.



**Figure 1**

- (a) Calculate the number of staff who have claimed less than 10 hours of overtime in the month. (4)
- (b) Estimate the median number of hours of overtime claimed by these 40 staff in the month. (2)
- (c) Estimate the mean number of hours of overtime claimed by these 40 staff in the month. (2)

The manager wants to compare these data with overtime data he collected earlier to find out if the overtime claimed by staff has decreased.

- (d) State, giving a reason, whether the manager should use the median or the mean to compare the overtime claimed by staff. (2)

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