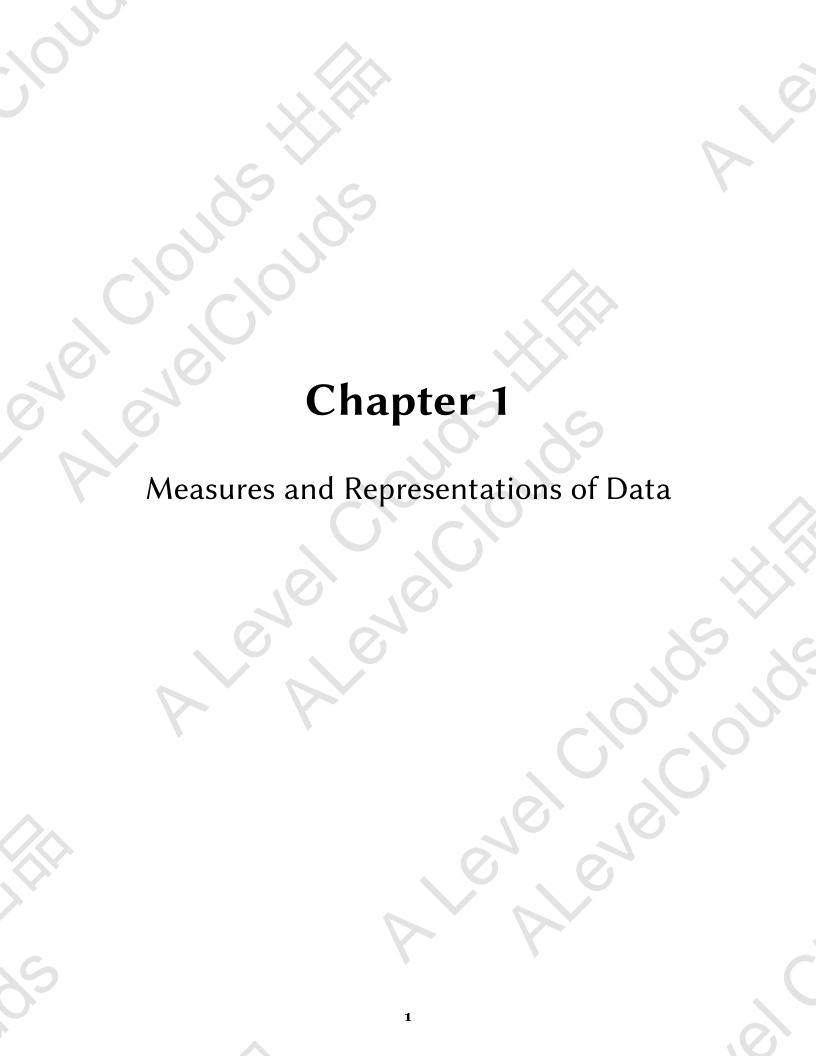
爱德思
Statistics 1
分类真题
2014-2022 册

A Level Clouds 出品

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2. A rugby club coach uses club records to take a random sample of 15 players from 1990 and an independent random sample of 15 players from 2010. The body weight of each player was recorded to the nearest kg and the results from 2010 are summarised in the table below.

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

(a) Find the estimated values in kg of the summary statistics a, b and c in the table below.

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

Give your answers to 3 significant figures.

**(6)** 

The rugby coach claims that players' body weight increased between 1990 and 2010.

(b) Using the table in part (a), comment on the rugby coach's claim.				

**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.

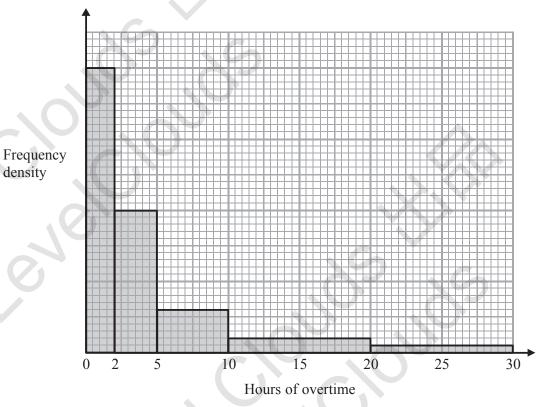


Figure 1

(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)** 

