

Pearson Edexcel AS Mathematics 8MA0

Statistics – Statistical Sampling

Time allowed: 45 minutes

School: www.CasperYC.club

Name:

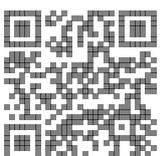
Teacher:

How I can achieve better:

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Question	Points	Score
1	5	
2	7	
3	7	
4	7	
5	9	
6	7	
7	8	
Total:	50	

Last updated: January 4, 2026



7. The table shows the daily mean temperatures in °C at Perth Airport for the first 20 days in May 1987. The data is taken from the large data set.

Date	Daily mean temperature (in degrees)
01/05/1987	14.9
02/05/1987	13.7
03/05/1987	15.3
04/05/1987	16.9
05/05/1987	18.4
06/05/1987	21.6
07/05/1987	20.4
08/05/1987	16.6
09/05/1987	14.6
10/05/1987	10.0
11/05/1987	11.5
12/05/1987	12.3
13/05/1987	12.9
14/05/1987	13.1
15/05/1987	13.8
16/05/1987	14.8
17/05/1987	14.5
18/05/1987	13.5
19/05/1987	14.5
20/05/1987	13.8

(a) Describe the type of data represented by daily mean temperature. [1]

Jennifer is investigating the daily temperature at Perth. She wants to select a sample of size 5 from the daily temperatures at Perth from the first 20 days in May 1987.

(b) Describe what Jennifer could use as the sampling frame. [1]

(c) Describe the type of sample Jennifer could take and explain how she could collect her sample. [2]

Sally is investigating rainfall in Leeming in 1987. The large data set provides data for 184 consecutive days in 1987.

