

BAMS1613 Oct 2022 Answers

- Q1. a) Population: All 60 students entered in the examination by the primary school.
Sample: None
Variable of interest: Quantitative continuous
- b) (i) 9.25 (ii) 16.67%
- c) Mean = 59.7, Median = 58.4, Standard deviation = 13.35
- Q2. a) (i) 0.3611
(ii) 1.25, 1.05
(iii) 0.2743
- b) (i) 0.6293
(ii) 176.6 cm
- c) (i) 0.5578
(ii) 0.9502
- Q3. a) (i) 38.5, 0.9334
(ii) 0.0537
- b) (49.96, 52.04)
- c) $z = -1.7678$, do not reject H_0 .
- d) $z = -3.0619$, reject H_0 .
- Q4. a) (i) -0.9048
(ii) 0.7073
(iii) The two events are not mutually exclusive.
(iv) The two events are not independent.
- b) (i) Independent variable: Height (in m)
Dependent variable: Temperature (in °C)
(ii) $r^2 = 0.9514$
(iii) $y = 29.6071 - 0.0102x$
(iv) 20.9 °C
This is an interpolation estimate, the prediction is reliable and accurate.