

BAMS1613 June 2023 Answers

- Q1. a) Population: All the citizens in a large city
Sample: A group of 58 citizens selected from the large city.
Variable of interest: Time spend on browsing the internet.
Type of variable: Quantitative continuous
- b) (i) $Q_1 = 4$, $Q_3 = 7.4$, Quartile deviation = 1.7
(ii) 41.38%
- c) Mean = 5.6207, Mode = 5.1, Standard deviation = 2.4625
- Q2. a) (i) 0.36708
(ii) 2, 1.2247
(iii) 0.9222
- b) (i) 0.00023
(ii) 0.0668
- c) (i) 0.59399
(ii) 0.018316
- Q3. a) (i) $37.45 \approx 38$
(ii) 0.0537
- b) (1952.61, 2477.39) (RM)
- c) $Z = 1.455$, do not reject H_0 .
- d) $Z = 0.4$, do not reject H_0 .
- Q4. a) (ii) 0.8
(iii) 0.4
- b) (i) Independent variable: number of pages of the text book
Dependent variable: Price (RM)
- (ii) $r = 0.9483$
- (iii) $y = -6.7237 + 0.0991x$
- (iv) RM34.40
- This is an extrapolation estimate, the prediction is not reliable and not accurate.