BAMS1613 Answers

May 2021

Q1. a) Mode = 33 minutes

  b) (i) Q_1 = 23, Q_3 = 34.25, Quartile deviation = 5.625

  (ii) 42%

  c) mean = 27.775 minutes

  standard deviation = 8.8968 minutes

Q2. a) (i) 0.0918

  (ii) 0.8164

  (iii) 0.0918, 2.8458

  b) (i) 0.09763

  (ii) 0.09678

  c) (i) 0.9953

  (ii) 0.1813

Q3. a) (i) mean = 5.7, standard deviation = 0.2874

  (ii) 0.1492

  b) (113.52, 126.68)

  c) z= 4.472, reject H_0.

  d) z= -1.76, do not reject H_0.

Q4. a) (i) 0.08333

  (ii) Not mutually exclusive

  b) (i) Y = -2726.15 + 86.8X

  (ii) 0.9649

  (iii) 0.9940