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Q1: The time (in minutes) taken by 11 students to complete a programming task is given below:

25, 12, 30, 32, 15, 18, 22, 20, 28, 35, 38

a) Calculate 7^{th} decile and 64^{th} percentile. 02

b) Determine the five-number summary and draw a box-whisker plot. 04

c) If we add another student's time (56 minutes) to our given data, decide if it will be an outlier or not. 02

Q2: The number of software bugs detected by two testing teams over five days is given below:

Team	Day 1	Day 2	Day 3	Day 4	Day 5
Alpha	8	10	12	14	16
Beta	5	9	12	15	19

a) Calculate the population standard deviation for both teams. Which team is more consistent? 05

b) Distinguish between skewness and kurtosis. 02