1 The dot plot shown below represents the number of pets owned by students in a class.

Which statement about the data is not true?
1) The median is 3.
2) The interquartile range is 2.
3) The mean is 3.
4) The data contain no outliers.

2 Given the following data set:
65, 70, 70, 70, 80, 80, 80, 85, 90, 90, 95, 95, 95, 100
Which representations are correct for this data set?
1) I and II
2) I and III, only
3) II and III, only
4) I, II, and III
S.ID.A.1: Dot Plots
Answer Section

1 ANS: 3
median = 3, IQR = 4 – 2 = 2, \( \bar{x} = 2.75 \). An outlier is outside the interval \([Q_1 - 1.5(IQR), Q_3 + 1.5(IQR)]\).
\([2 - 1.5(2), 4 + 1.5(2)]\)
\([-1, 7]\)

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2 ANS: 4

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