Name   Date: Period:

Use a separate sheet of **graph paper** for the following questions.

Draw a **DOT PLOT** for each data set for question #s 1- 2.

1.   Games per World Series

      4   4   4   4   5   5   5   6   6   7   7   7   7   7   7   7   7

2.   Age Assumed Office

Senator	Age	Senator	Age	Senator	Age	Senator	Age	Senator	Age
Mary Landrieu	41	Jon Tester	50	Mike Enzi	52	Barbara Boxer	52	Lamar Alexander	62
Mike Crapo	47	Tim Johnson	50	Dick Durbin	52	Sherrod Brown	54	Rich Blumenthal	64
John Cornyn	50	Jeff Sessions	50	Bob Menedez	52	John Barrasso	54	Angus King	68

Create a **STEM AND LEAF PLOT** for #s 3 - 6.

3.   The following data showing the ages of people in a movie theater.

      10   10   10   12   13   5   11   12   11   16   13   14   12   9   20   6   22   15   7   7
      8   9   8   8   28   51   29   48   37   33

4.   The following data shows the number of sit ups completed by 17 students.

      26   14   19   34   16   42   24   47   51   47   25   18   56   62   12   38   43

5.   Test scores, out of 100, for 18 students.

      52   66   51   73   53   62   55   58   82   67   74   80   79   55   71   60   80   93

Construct a **BOX AND WHISKER PLOT** for date sets provided in #s 7 – 10.

6.   Ages of Bowlers in a Bowling League.

      20   27   28   29   30   31   33   33   37   39   55

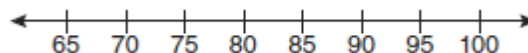7.   Ages of Family Members:

      36   50   3   50   6   50   11   45   15   42   18   39   18   38   30

8. Test scores
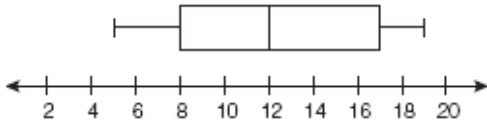
      37   38   39   44   44   45   46   47   47   47   47   48   51   52   52   53   54

9.   The test scores from Mrs. Gray's math class are shown: 72, 73, 66, 71, 82, 85, 95, 85, 86, 89, 91, 92
      Construct a box-and-whisker plot to display this data.

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   <----+----+----+----+----+----+----+---->
       65   70   75   80   85   90   95  100
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10. The data set 5, 6, 7, 8, 9, 9, 9, 10, 12, 14, 17, 17, 18, 19, 19 represents the number of hours spent on the Internet in a week by students in a mathematics class. Which box-and-whisker plot represents the data?
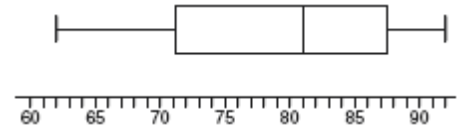
[A]

[B]

[C]

[D]

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11. The accompanying diagram shows a box-and-whisker plot of student test scores on last year's Mathematics A midterm examination. What is the median score?
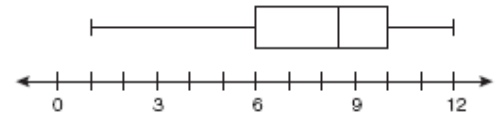

[A]   62   [B]   92   [C]   81   [D]   71

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12. What is the value of the third / upper quartile shown on the box-and-whisker plot below?

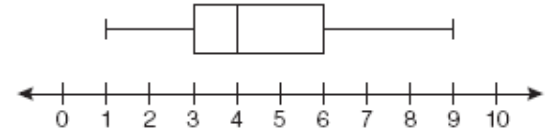[A]   8.5   [B]   12   [C]   6   [D]   10

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13. A movie theater recorded the number of tickets sold daily for a popular movie during the month of June. The box-and-whisker plot shown below represents the data for the number of tickets sold, in hundreds. Which conclusion can be made using this plot?
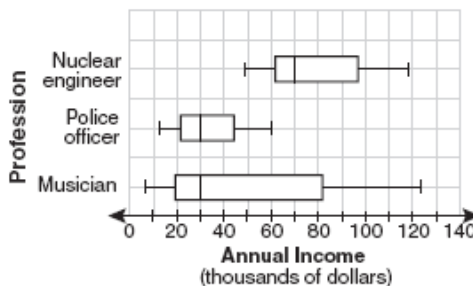

[A]   The range of the attendance is 300 to 600.   [B]   Twenty-five percent of the attendance is between 300 and 400.

[C]   The second quartile is 600.   [D]   The mean of the attendance is 400.

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14. The accompanying box-and-whisker plots can be used to compare the annual incomes of three professions.

Based on the box-and-whisker plots, which statement is true?

[A]   A musician will eventually earn more than a police officer.   [B]   All nuclear engineers earn more than all police officers.

[C]   The median income for police officers and musicians is the same.   [D]   The median income for nuclear engineers is greater than the income of all musicians.