Statistic examples 01 Class Time Examples

_____ 1. Which statements are valid for the data set shown below?

weights of seals (in pounds):

325, 349, 400, 375, 305, 375, 365, 300, 350, 357, 350, 377, 315, 337, 358

     a. A circle graph is an appropriate way to display the data.
     b. The data are quantitative.
     c. A bar graph is an appropriate way to display the data.
     d. A box-and-whisker plot is an appropriate way to display the data.

_____ 2. Which statements are valid for the data set shown below?

weights of seals (in pounds):

329, 315, 358, 300, 400, 374, 350, 332, 377, 339, 374, 300, 385, 375, 325

     a. A circle graph is an appropriate way to display the data.
     b. A bar graph is an appropriate way to display the data.
     c. The data are quantitative.
     d. A box-and-whisker plot is an appropriate way to display the data.

_____ 3. Which statements are valid for the data set shown below?

color of marbles in a bag:

blue: 20; red: 25; yellow: 15; green: 28; black: 37; white: 37

     a. A box-and-whisker plot is an appropriate way to display the data.
     b. A line plot is an appropriate way to display the data.
     c. The data are qualitative.
     d. A circle graph is an appropriate way to display the data.

_____ 4. Which statements are valid for the data set shown below?

weights of seals (in pounds):

400, 315, 375, 325, 350, 339, 351, 381, 300, 321, 336, 390, 352, 340, 367

     a. A circle graph is an appropriate way to display the data.
     b. A box-and-whisker plot is an appropriate way to display the data.
     c. A bar graph is an appropriate way to display the data.
     d. The data are quantitative.

_____ 5. Which statements are valid for the data set shown below?

color of marbles in a bag:

blue: 27; red: 29; yellow: 25; green: 29; black: 40; white: 34

    a. A box-and-whisker plot is an appropriate way to display the data.
    b. The data are qualitative.
    c. A circle graph is an appropriate way to display the data.
    d. A line plot is an appropriate way to display the data.

_____ 6. Which statements are valid for the data set shown below?

color of cars in a parking lot

blue: 18; red: 18; yellow: 25; green: 30; black: 31; white: 38

    a. A stem-and-leaf plot is an appropriate way to display the data.
    b. A box-and-whisker plot is an appropriate way to display the data.
    c. The data are qualitative.
    d. A bar graph is an appropriate way to display the data.

_____ 7. Which statements are valid for the data set shown below?

color of marbles in a bag:

blue: 18; red: 18; yellow: 29; green: 29; black: 38; white: 40

    a. A line plot is an appropriate way to display the data.
    b. A box-and-whisker plot is an appropriate way to display the data.
    c. A circle graph is an appropriate way to display the data.
    d. The data are qualitative.

_____ 8. Which statements are valid for the data set shown below?

number of pages read by a student each week

384, 351, 339, 350, 375, 370, 325, 359, 303, 375, 337, 400, 350, 306, 300

    a. The data are quantitative.
    b. A circle graph is an appropriate way to display the data.
    c. A bar graph is an appropriate way to display the data.
    d. A line plot is an appropriate way to display the data.

Statistic examples 01 Class Time Examples
Answer Section

1. ANS: B, D   PTS: 1   DIF: Level 2   REF: Algebra 1 Sec. 11.5
   NAT: HSS-ID.A.1
   KEY: qualitative data | quantitative data | classifying data | choosing and creating appropriate data displays
   NOT: Combined Concept
2. ANS: C, D   PTS: 1   DIF: Level 2   REF: Algebra 1 Sec. 11.5
   NAT: HSS-ID.A.1
   KEY: qualitative data | quantitative data | classifying data | choosing and creating appropriate data displays
   NOT: Combined Concept
3. ANS: C, D   PTS: 1   DIF: Level 2   REF: Algebra 1 Sec. 11.5
   NAT: HSS-ID.A.1
   KEY: qualitative data | quantitative data | classifying data | choosing and creating appropriate data displays
   NOT: Combined Concept
4. ANS: B, D   PTS: 1   DIF: Level 2   REF: Algebra 1 Sec. 11.5
   NAT: HSS-ID.A.1
   KEY: qualitative data | quantitative data | classifying data | choosing and creating appropriate data displays
   NOT: Combined Concept
5. ANS: B, C   PTS: 1   DIF: Level 2   REF: Algebra 1 Sec. 11.5
   NAT: HSS-ID.A.1
   KEY: qualitative data | quantitative data | classifying data | choosing and creating appropriate data displays
   NOT: Combined Concept
6. ANS: C, D   PTS: 1   DIF: Level 2   REF: Algebra 1 Sec. 11.5
   NAT: HSS-ID.A.1
   KEY: qualitative data | quantitative data | classifying data | choosing and creating appropriate data displays
   NOT: Combined Concept
7. ANS: C, D   PTS: 1   DIF: Level 2   REF: Algebra 1 Sec. 11.5
   NAT: HSS-ID.A.1
   KEY: qualitative data | quantitative data | classifying data | choosing and creating appropriate data displays
   NOT: Combined Concept
8. ANS: A, D   PTS: 1   DIF: Level 2   REF: Algebra 1 Sec. 11.5
   NAT: HSS-ID.A.1
   KEY: qualitative data | quantitative data | classifying data | choosing and creating appropriate data displays
   NOT: Combined Concept