

Name:

Partners:

Statistics

Date:

Review 2 Version A

[A] Circle whether each statement is true or false.

- T F 1. Home prices tend to be skewed right.
- T F 2. In a histogram, a class of 30-40 would include 40.
- T F 3. A circle graph can always be remade into a bar graph.
- T F 4. A bar graph can always be remade into a circle graph.
- T F 5. In a histogram, each bar must be exactly the same width.
- T F 6. The variable on the x-axis should not be participant number.
- T F 7. The distribution for the rolls of 100 dice would be approximately uniform.
- T F 8. A time series plot would be used to show the relationship between study time and test score.
- T F 9. For a given data set, the shape of a frequency histogram and of a relative frequency histogram is the same.
- T F 10. In a time plot, scatter plot, and bar graph, the independent variable goes on the x-axis and the dependent variable goes on the y-axis.

[B] Scores on a PreCalculus chapter 1 test were 50, 53, 54, 54, 54, 58, 60, 60, 60, 61, 61, 61, 62, 65, 65, 65, 66, 67, 68, 69, 70, 70, 72, 72, 73, 73, 73, 74, 74, 76, 76, 76, 77, 77, 77, 78, 78, 81, 81, 81, 82, 82, 83, 84, 84, 84, 84, 85, 86, 87, 87, 88, 89, 90, 90, 91, 92, 92, 93, 94, 96, 96, 96, 100, 104. Make a relative frequency histogram identical to those made by your partners in all respects (class width, scale, etc.), except the data are different.

[C] For each of the following research questions, identify whether the results would best be graphed as a scatter plot, time series plot, regular bar graph, or histogram. Then sketch, label, and scale the axes, and give a title. (You do not need to plot any data.) Assume the population for each question is current SVHS students.

1. Can boys do fewer pull-ups the heavier they are?

2. How has the average home price changed over the past five years?

3. Does average number of texts sent per day vary by grade level?

[D] For one of the questions in part [C], make up realistic data and draw a neat, full color graph. Do not choose one with the same type of graph as someone else in your group.

[E] Do the following to organize your group's reviews.

1. Make sure your name and your partners' names are at the top of your review the first day.
2. Staple the reviews in order, all facing the same way. Put the staple in the very top left corner if everyone is finished or if the review is due; otherwise put the staple in the top right corner.

Name:

Statistics

Date:

Review 2 Version B

[A] Circle whether each statement is true or false.

- T F 1. Home prices tend to be skewed right.
- T F 2. In a histogram, a class of 30-40 would include 40.
- T F 3. A circle graph can always be remade into a bar graph.
- T F 4. A bar graph can always be remade into a circle graph.
- T F 5. In a histogram, each bar must be exactly the same width.
- T F 6. The variable on the x-axis should not be participant number.
- T F 7. The distribution for the rolls of 100 dice would be approximately uniform.
- T F 8. A time series plot would be used to show the relationship between study time and test score.
- T F 9. For a given data set, the shape of a frequency histogram and of a relative frequency histogram is the same.
- T F 10. In a time plot, scatter plot, and bar graph, the independent variable goes on the x-axis and the dependent variable goes on the y-axis.

[B] Scores on a PreCalculus chapter 2 test were 38, 53, 56, 56, 56, 58, 58, 61, 63, 66, 68, 70, 70, 73, 73, 74, 74, 74, 76, 76, 77, 77, 78, 78, 78, 79, 81, 81, 82, 82, 82, 84, 84, 85, 85, 86, 86, 86, 86, 88, 88, 89, 89, 89, 90, 92, 92, 92, 92, 92, 92, 93, 93, 93, 93, 93, 93, 94, 94, 94, 96, 96, 97, 98, 100, 104. Make a relative frequency histogram identical to those made by your partners in all respects (class width, scale, etc.), except the data are different.

[C] For each of the following research questions, identify whether the results would best be graphed as a scatter plot, time series plot, regular bar graph, or histogram. Then sketch, label, and scale the axes, and give a title. (You do not need to plot any data.) Assume the population for each question is current SVHS students.

1. How many pull-ups can boys do?

2. What zip codes are students' homes in?

3. Do students tend to get lower math grades the more they text per day?

[D] For one of the questions in part [C], make up realistic data and draw a neat, full color graph. Do not choose one with the same type of graph as someone else in your group.

[E] Bonus.

1. Make a relative frequency histogram showing the expected distribution of the sum of rolling two four-sided dice.

Name:

Statistics

Date:

Review 2 Version C

[A] Circle whether each statement is true or false.

- T F 1. Home prices tend to be skewed right.
- T F 2. In a histogram, a class of 30-40 would include 40.
- T F 3. A circle graph can always be remade into a bar graph.
- T F 4. A bar graph can always be remade into a circle graph.
- T F 5. In a histogram, each bar must be exactly the same width.
- T F 6. The variable on the x-axis should not be participant number.
- T F 7. The distribution for the rolls of 100 dice would be approximately uniform.
- T F 8. A time series plot would be used to show the relationship between study time and test score.
- T F 9. For a given data set, the shape of a frequency histogram and of a relative frequency histogram is the same.
- T F 10. In a time plot, scatter plot, and bar graph, the independent variable goes on the x-axis and the dependent variable goes on the y-axis.

[B] Scores on a PreCalculus chapter 3 test were 16, 24, 36, 37, 40, 41, 41, 45, 50, 51, 52, 53, 54, 56, 58, 60, 62, 64, 64, 65, 65, 65, 65, 66, 66, 69, 70, 70, 72, 73, 74, 74, 74, 76, 76, 76, 76, 76, 76, 77, 77, 78, 78, 80, 82, 82, 82, 83, 84, 85, 86, 88, 89, 89, 89, 90, 90, 92, 92, 93, 93, 94, 96, 97, 104. Make a relative frequency histogram identical to those made by your partners in all respects (class width, scale, etc.), except the data are different.

[C] For each of the following research questions, identify whether the results would best be graphed as a scatter plot, time series plot, regular bar graph, or histogram. Then sketch, label, and scale the axes, and give a title. (You do not need to plot any data.) Assume the population for each question is current SVHS students.

1. Can seniors do more pull-ups than juniors can?

2. How much are the homes worth that students live in?

3. How many texts has Marissa sent on each of the past 14 days?

[D] For one of the questions in part [C], make up realistic data and draw a neat, full color graph. Do not choose one with the same type of graph as someone else in your group.

[E] Bonus.

1. Make a relative frequency histogram showing the expected distribution of the sum of rolling two six-sided dice.

Name:

Statistics

Date:

Review 2 Version D

[A] Circle whether each statement is true or false.

- T F 1. Home prices tend to be skewed right.
- T F 2. In a histogram, a class of 30-40 would include 40.
- T F 3. A circle graph can always be remade into a bar graph.
- T F 4. A bar graph can always be remade into a circle graph.
- T F 5. In a histogram, each bar must be exactly the same width.
- T F 6. The variable on the x-axis should not be participant number.
- T F 7. The distribution for the rolls of 100 dice would be approximately uniform.
- T F 8. A time series plot would be used to show the relationship between study time and test score.
- T F 9. For a given data set, the shape of a frequency histogram and of a relative frequency histogram is the same.
- T F 10. In a time plot, scatter plot, and bar graph, the independent variable goes on the x-axis and the dependent variable goes on the y-axis.

[B] Scores on a PreCalculus chapter 4 test were 6, 24, 24, 26, 29, 37, 38, 39, 42, 44, 45, 46, 49, 56, 60, 61, 61, 62, 63, 63, 65, 66, 66, 68, 69, 70, 72, 72, 73, 73, 73, 77, 78, 80, 81, 81, 81, 82, 84, 85, 85, 85, 85, 85, 86, 86, 86, 88, 88, 88, 88, 90, 90, 92, 93, 93, 94, 96, 96, 97, 97, 98, 101, 105, 106. Make a relative frequency histogram identical to those made by your partners in all respects (class width, scale, etc.), except the data are different.

[C] For each of the following research questions, identify whether the results would best be graphed as a scatter plot, time series plot, regular bar graph, or histogram. Then sketch, label, and scale the axes, and give a title. (You do not need to plot any data.) Assume the population for each question is current SVHS students.

1. What is the total number of pull-ups Tanner has done in each of the past 10 weeks?

2. Is there a correlation between home value and family income?

3. How many texts do SVHS students send each day?

[D] For one of the questions in part [C], make up realistic data and draw a neat, full color graph. Do not choose one with the same type of graph as someone else in your group.

[E] Bonus.

1. Make a relative frequency histogram showing the expected distribution of the number of heads out of three coin flips.