

The following data represent the percent of owners of an electronic device that plan to purchase a replacement device within the next 12 months based on a survey of 1100 adults in a certain country. Complete parts (a) through (c).

 Click the icon to view the bar chart of the data.

(a) What percent of game console owners plan to buy a replacement device within the next 12 months?

%

(b) If there are 250 million individuals who own a cell phone, how many expect to replace their phone within the next 12 months?

(c) If the results of the survey were claimed to indicate that 7.9% of adults in this country who own digital cameras plan to replace their camera in the next 12 months, would you say this statement is descriptive or inferential? Why?

- ☐ A. The statement is descriptive, because the survey sampled enough adults in the country to be certain that its results apply to the population.
- ☐ B. The statement is inferential, because the survey results are unlikely to be similar to the results for the country's population.
- ☐ C. The statement is descriptive, because the claim is stating what has been determined by the survey.
- ☐ D. The statement is inferential, because the survey reports on a sample of the country's population. This claim requires an inference to the population.

Question 1

Click to select your answer(s).

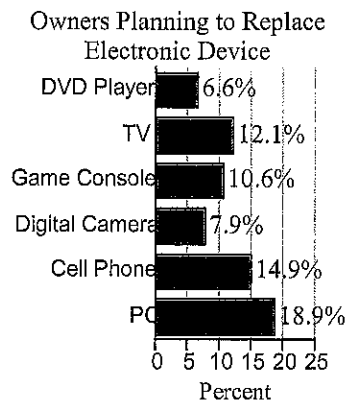
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Question 1 Chart

Planned Electronic Device Replacement



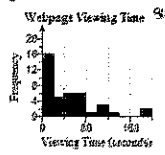


An Internet media and market research firm measured the amount of time an individual spends viewing a specific Webpage. The data in the accompanying table represent the amount of time, in seconds, a random sample viewing a Webpage. Create the graphical summary. Write a sentence that describes the data.

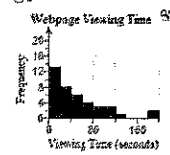
☐ Click the icon to view the data table.

Create the graphical summary. Choose the correct graph below.

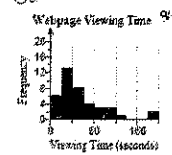
☒ A.



☐ B.



☐ C.



Write a sentence that describes the data. Choose the correct answer below.

- ☐ The distribution is bell shaped.
- ☐ The distribution is skewed left.
- ☐ The distribution is uniform.
- ☒ The distribution is skewed right.

Question 2

Click to select your answer.

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Question 2 chart

Viewing Times (seconds)



19	86	27	42	11	12	13	5
27	20	83	4	69	10	12	65
15	26	75	27	19	31	23	14
111	185	51	51	136	48	16	81
9	73	45	27	104	199	40	114



For the stem-and-leaf plot below, what are the maximum and minimum entries?

1 | 2 6
1 | 6 6 6 7 8 9
2 | 0 1 1 2 3 4 4 5 6 6
2 | 7 7 7 8 8 9 9 9
3 | 0 1 1 2 3 4 4 5 5
3 | 6 6 6 7 8 8 9 9
4 | 3 6

- ☐ A. max = 47; min = 16
☒ B. max = 46; min = 12
☐ C. max = 38; min = 7
☐ D. max = 43; min = 12

Question 3

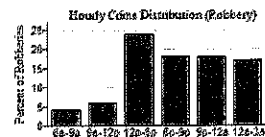
Click to select your answer.

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A newspaper article claimed that the afternoon hours were the worst in terms of robberies and provided the graph to the right in support of this claim. Explain how this graph is misleading.



Choose the correct answer below.

- ☐ A. The vertical axis has no units. This can mislead readers into thinking that the percentages are actually counts.
- ☐ B. All of the bars are the same color, so they tend to blend visually with each other. This makes the graph hard to read.
- ☐ C. The vertical axis stops at 25%. It should go all the way up to 100% to accurately show percentage data.
- ☒ D. Not all of the time intervals are the same size. Redistributing the time interval so they are all the same size may lead to a different shape.

Question 4

Click to select your answer.

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