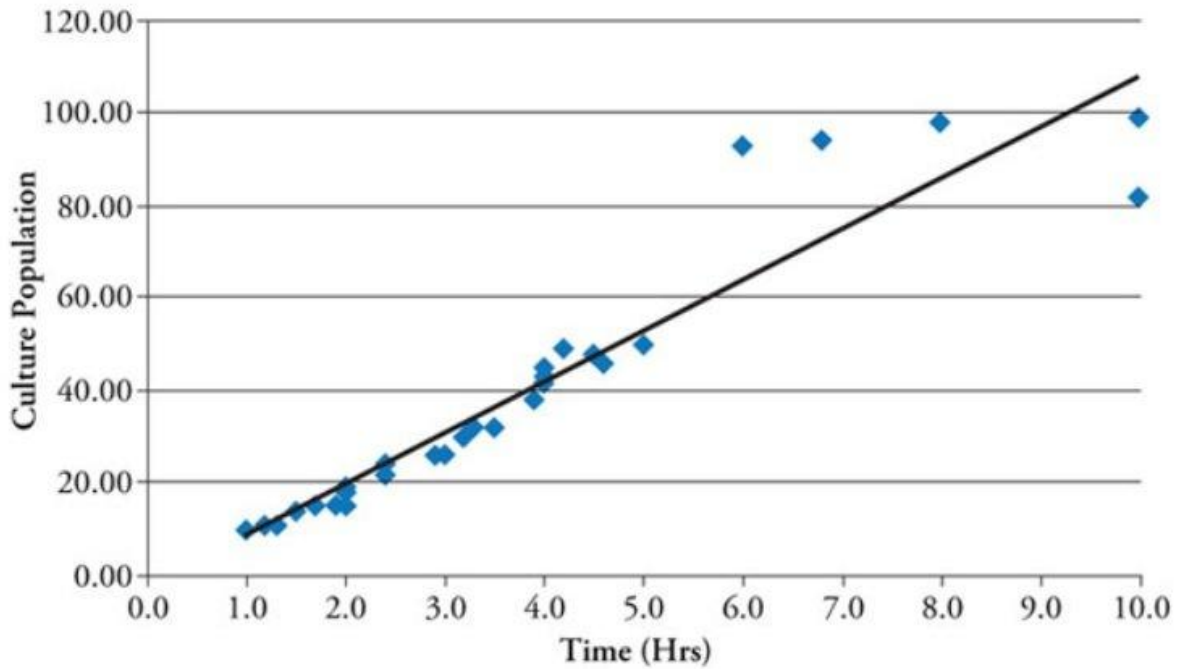## Question 1

The graph is a scatter plot with 30 points, each representing the amount of bacteria present after a certain amount of time. The solid line is the regression line.

Use the drop-down menus to fill in the blanks in each of the following statements based on the information given by the graph.
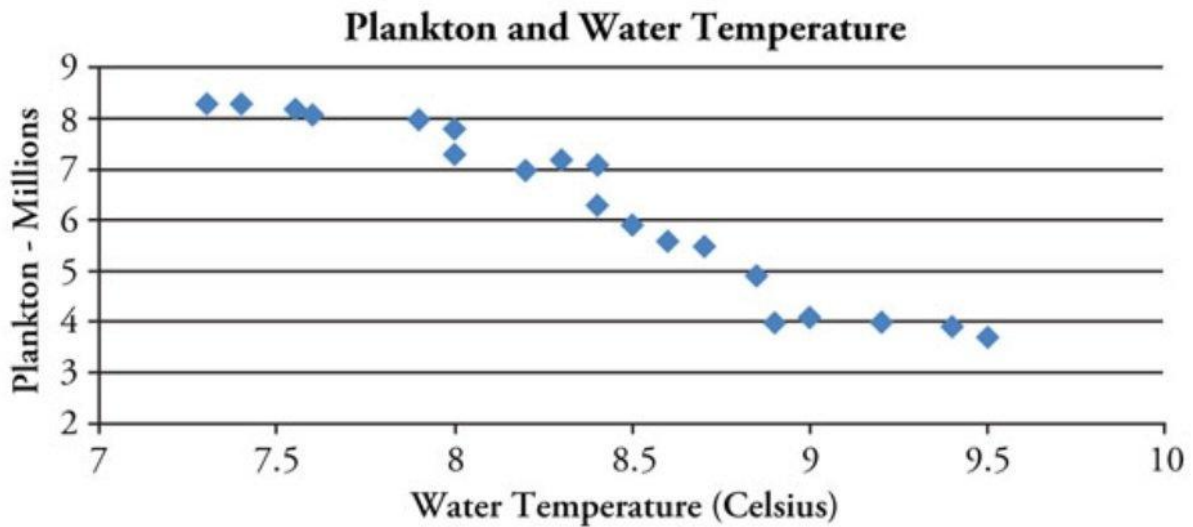
The slope of the regression line is approximately_____.

A. 0
B. 1
C. 4
D. 7

The culture population ranges between_____.

A. 10 and 50
B. 15 and 45
C. 10 and 100
D. 1 and 10

Question 2

Plankton and Water Temperature

The chart shows the number of plankton (in millions) detected in sea water off the coast of Alaska at varied water temperatures.

Use the drop-down menus to fill in the blanks in each of the following statements based on the information given by the graph.
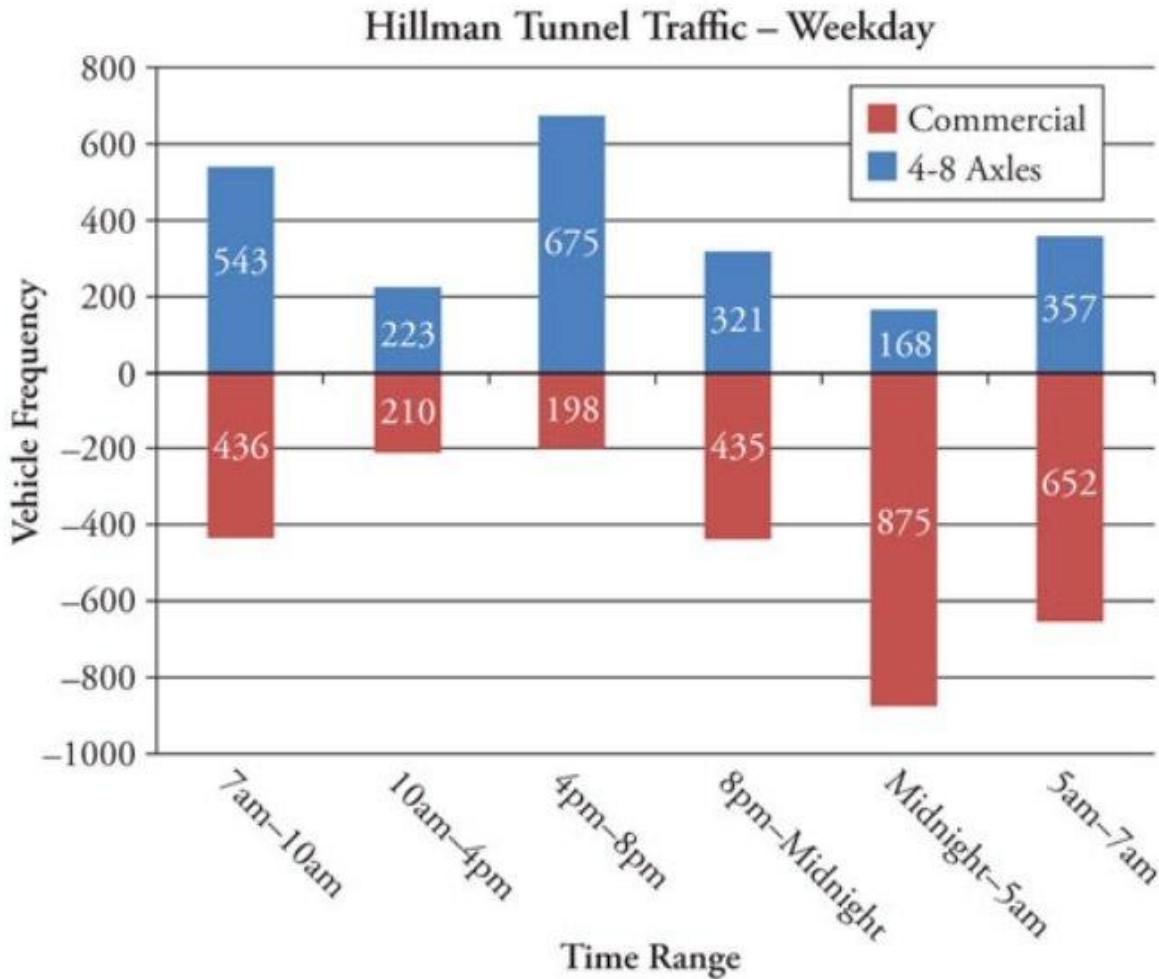
The slope of the regression line would be_____.

A. positive
B. negative
C. zero

Generally speaking, the cooler the water_____.

A. the more plankton there are.
B. the fewer plankton there are.
C. the smaller the water samples.
D. the larger the water samples.

Question 3

Hillman Tunnel Traffic – Weekday

The chart above shows the frequency distribution of 4- to 8-axle and commercial vehicles at different times during a weekday. All vehicles that did not have 4-8 axles have 2 axles.

Use the drop-down menus to fill in the blanks in each of the following statements based on the information given by the graph.
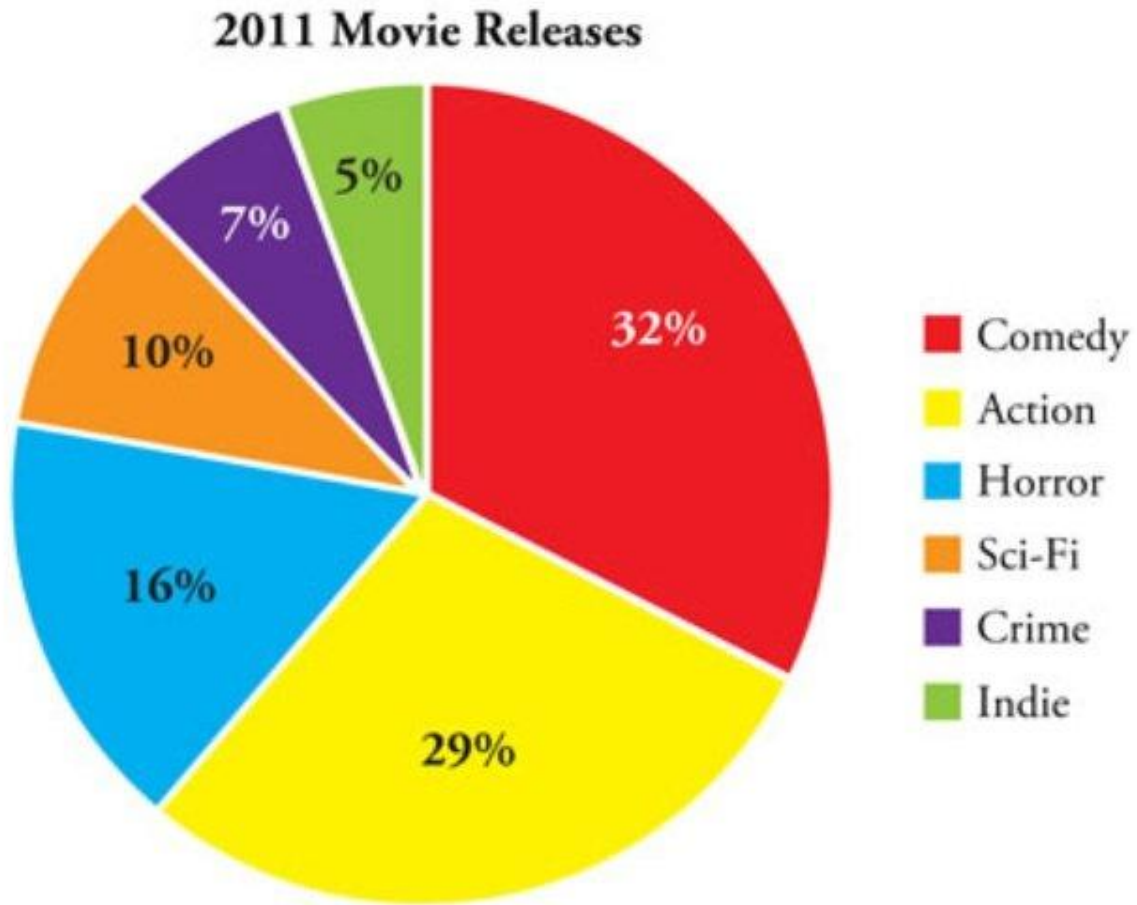
Of the_____total vehicles going through the tunnel from 7am to 10am, 410 were commercial vehicles with 4-8 axles and 212 were non-commercial vehicles with 2 axles.

A. 781
B. 979
C. 1191

There was approximately_____percent more commercial vehicle traffic from midnight to 5am than there was from 5am to 7am.

A. 1
B. 25
C. 34
D. 223

Question 4

2011 Movie Releases

The graph above is a circle graph with 6 sectors, each representing a movie genre, depicting the 565,725 movies released in 2011.

Use the drop-down menus to fill in the blanks in each of the following statements based on the information given by the graph.

There were_____comedy movies released in 2011 as/than there were Sci-Fi, Indie, and Horror movies combined.
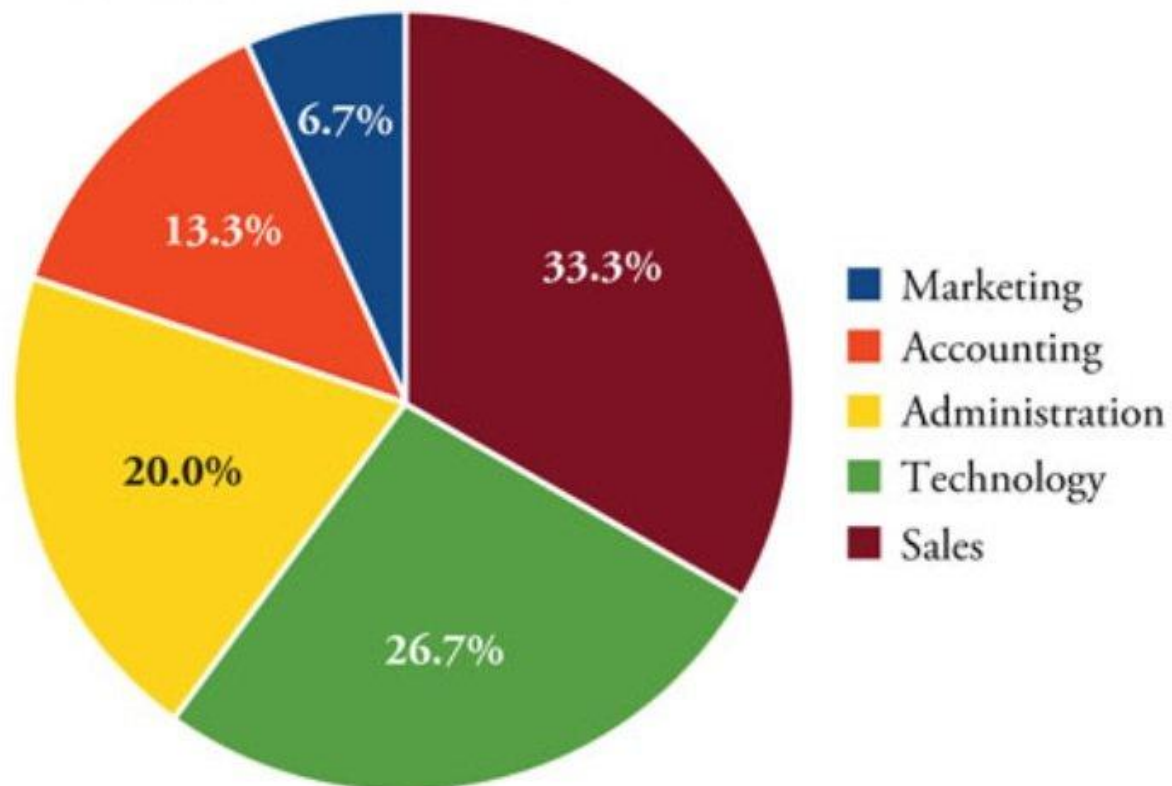
A. More

B. Fewer
C. The same number

In 2011, approximately_____comedies were released than the average number of movies released by the two lowest-ranking sectors.

A. 147,259 more
B. 147,088 more
C. 141,439 more
D. 107,495 more

Question 5

Expenses for Biotechnology Company

6.7%

13.3%

33.3%

20.0%

26.7%

- Marketing
- Accounting
- Administration
- Technology
- Sales

The pie graph represents the proportions of a biotechnology company's expenses for its 5 departments during the company's most recent fiscal year. During that fiscal year, the company's total expenses were $80,000.

Use the drop-down menus to fill in the blanks in each of the following statements based on the information given by the graph.

The ratio of Sales expenses to Administration expenses is approximately_____.

A. 2 to 3
B. 5 to 3
C. 3 to 2

The company's Marketing Department expenses are approximately_____of the company's Technology Department expenses.

A. 13.2%
B. 17.6%
C. 21.3%
D. 25.1%