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| Question 21 of 40 | 2.5 Points |

Select the best estimate of the correlation coefficient for the data depicted in the scatter diagram.



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| A. -0.9 |  |
| B. 0.9 |  |
| C. 0.5 |  |
| D. -0.5 |  |

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| Question 22 of 40 | 2.5 Points |

The scatter plot and best-fit line show the relation between the price per item (y) and the availability of that item (x) in arbitrary units. The correlation coefficient is -0.95. Determine the amount of variation in pricing explained by the variation in availability.



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| A. 5% |  |
| B. 10% |  |
| C. 95% |  |
| D. 90% |  |

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| Question 23 of 40 | 2.5 Points |

Select the best fit line on the scatter diagram below.



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| A. A |  |
| B. B |  |
| C. C |  |
| D. None of the lines is the line of best fit |  |
| Question 24 of 40 | 2.5 Points |

Which line of the three shown in the scatter diagram below fits the data best?



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| A. A |  |
| B. B |  |
| C. C |  |
| D. All the lines are equally good |  |

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| Question 25 of 40 | 2.5 Points |

Select the best estimate of the correlation coefficient for the data depicted in the scatter diagram.



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| A. -0.9 |  |
| B. 0.1 |  |
| C. 0.5 |  |
| D. 0.9 |  |

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| Question 26 of 40 | 2.5 Points |

A sample of 64 statistics students at a small college had a mean mathematics ACT score of 28 with a standard deviation of 4. Estimate the mean mathematics ACT score for all statistics students at this college. Give the 95% confidence interval.

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| A. 28.0 to 30.0 |  |
| B. 25.0 to 27.0 |  |
| C. 29.0 to 31.0 |  |
| D. 27.0 to 29.0

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| Question 27 of 40 | 2.5 Points |

Which point below would be an outlier if it were on the following graph?https://study.ashworthcollege.edu/access/content/group/8ef8b2f7-197d-41de-a4c4-db81a717c013/v9/Images/Lesson%206%20Exam/MA260%20Lesson%206%20exam%20question%202.JPG

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| A. (25, 20) |  |
| B. (5, 12) |  |
| C. (7, 5) |  |
| D. (5, 3) |  |

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| Question 28 of 40 | 2.5 Points |

30% of the fifth grade students in a large school district read below grade level. The distribution of sample proportions of samples of 100 students from this population is normal with a mean of 0.30 and a standard deviation of 0.045. Suppose that you select a sample of 100 fifth grade students from this district and find that the proportion that reads below grade level in the sample is 0.36. What is the probability that a second sample would be selected with a proportion less than 0.36?

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| A. 0.8932 |  |
| B. 0.8920 |  |
| C. 0.9032 |  |
| D. 0.9048 |  |