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| Online Homework Package Created by : Elsit and Satya Mandal | | |
| Course Id :Math 105 | Topics in Mathematics | Semester : Summer2017 |
| Instructor :Satya Mandal Line No : 84895 | | |
| Homework No: 14 | Total Points :50 | Due Date:(YYYY-MM-DD) 2017-07-27 |

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| Question-1 | George is an amateur bowler whose scores are normally distributed. His mean score is $\mu = 185$ points and the standard deviation score is $\sigma = 40$ points. What percentage of the scores fall between 105 points and 265 points? |
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| Answer Question-1 | This is a Numerical-Answer Type Question Percentage = <input type="text"/> |
| Points | 5.00 |

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| Question-2 | Refer to Question 1. What percentage of the scores are between 145 and 225 points? |
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| Answer Question-2 | This is a Numerical-Answer Type Question Percentage = <input type="text"/> |
| Points | 5.00 |

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| Question-3 | Refer to Question 1. What percentage of the scores fall below 105 points? |
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| Answer Question-3 | This is a Numerical-Answer Type Question Percentage = <input type="text"/> |
| Points | 5.00 |

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| Question-4 | The heights distribution of a population is assumed to be normal, with mean height $\mu = 66.5$ inches, and the standard deviation height $\sigma = 2.4$ inches. What percentage of people fall between 59.3 inches and 73.7 inches? |
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| Answer Question-4 | This is a Numerical-Answer Type Question <input type="text"/> |
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| | Percentage = |
| Points | 5.00 |

Question-5 Refer to Question 4. What is the percentage of people who are shorter than 59.3 inches or taller than 73.7 inches?

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| Answer Question-5 | This is a Numerical-Answer Type Question Percentage = |
| Points | 5.00 |

Question-6 Refer to Question 4. What is the percentage of people who are taller than 73.7 inches?

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| Answer Question-6 | This is a Numerical-Answer Type Question Percentage = |
| Points | 5.00 |

Question-7 Milk cartons are filled by a machine. The mean volume of a carton of milk is $\mu = 1.0$ quart and the standard deviation is $\sigma = 0.06$ quart. Assume that the volume of milk in the cartons is normally distributed.

What percent of the cartons will contain at least 0.94 quarts?

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| Answer Question-7 | This is a Numerical-Answer Type Question Percentage = |
| Points | 5.00 |

Question-8 Refer to Question 7. What percent of the cartons will contain at most 1.12 quarts?

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| Answer Question-8 | This is a Numerical-Answer Type Question Percentage = |
| Points | 5.00 |

Question-9 The length X of salmon in a river has normal distribution with mean $\mu = 17$ inches and standard deviation $\sigma = 4$ inches.

What percent of the salmon in the river are between 9 inches and 17 inches?

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| Answer Question-9 | This is a Numerical-Answer Type Question Percentage = <input type="text"/> |
| Points | 5.00 |

Question-10 Refer to Question 9. What percent of the salmon in the river are between 17 inches and 21 inches?

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| Answer Question-10 | This is a Numerical-Answer Type Question Percentage = <input type="text"/> |
| Points | 5.00 |

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