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	Thursday, 21 November 2024, 3:12 PM Finished
Completed on	Thursday, 21 November 2024, 3:25 PM
	13 mins 1 sec 10.00 out of 10.00 (100%)
Question 1 Correct Mark 2.00 out of 2.00 Flag question	An electrical firm manufactures light bulbs that have a length of life that is approximately normally distributed, with mean equal to 800 hours and a standard deviation of 40 hours. Find the probability that a random sample of 16 bulbs will have an average life of less than 775 hours. Select one: a. Φ(1.5) b. Φ(2.5) c. None of these d. Φ(-2.5) ✓ e. Φ(-1.5)
	Your answer is correct. The correct answer is: Φ(-2.5)
Mark 2.00 out of 2.00 ▼ Flag question	The mean diameter of marbles manufactured at a particular toy factory is 0.850 cm with a standard deviation 0.01 cm. What is the probability of selecting a random sample of 100 marbles that has the mean diameter greater than 0.851 cm? Select one: a. None of these b. 1-Φ(1) ✓ c. Φ(2) d. Φ(1) e. 1-Φ(-2.5)
	Your answer is correct. The correct answer is: 1-Φ(1)
Correct Mark 2.00 out of 2.00 Flag question	A survey found that the Singapore family generates an average of 17.2 pounds of garbage each year. Assume the standard deviation of the distribution is 2.5 pounds. Find the probability that the mean of a sample of 55 families will be between 17 and 18 pounds. (Use the z Score Table to find the approximated values) Select one: a. 0.6523 b. 0.8723 c. None of these d. 0.7147 e. 0.465
	Your answer is correct. The correct answer is: 0.7147
Mark 2.00 out of 2.00 ▼ Flag question	Use the settings from the previous question. What will be the variance of the weight of garbage (in pound) for 100 families? Select one: a. 0.125 b. 0.00625 c. 0.25 d. 0.0625 e. None of these
	The correct answer is: 0.0625
Correct Mark 2.00 out of 2.00 Flag question	The average teacher's salary in Singapore is SGD 52,174 per year. Suppose that the distribution is normal with standard deviation SGD 7500. What is the probability that a randomly selected teacher makes less than SGD 50,000 per year? Select one: a. 0.668 b. 0 c. None of these d. 0.3860 e. 0.3287
	Your answer is correct. The correct answer is: 0.3860
	Finish review
✓ Week 12 Lecture	Jump to ♦