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Courses » Sustainability through Green Manufacturing Systems: An Applied Approach

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# Unit 10 - Week 8

## Course outline

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- Lecture 27: Developing a Smart Factory
- Lecture 28: Demonstration on PLM Software
- Lecture 29: Developing a Smart Factory Continued
- Lecture 30: Sustainability and Green

## Assignment 8

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-10-24, 23:59 IST.**

1) "A system is considered as sustainable when it is resilient" **1 point**

The above statement is:

- True
- False

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*True*

2) According to sustainability principle to sustainability engineering practices, a system is 'social' means: **1 point**

- Creation and existence of the system is consistent with public policy
- System is and continues to be acceptable to those affected by the system
- System is affordable
- System meets user needs

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*System is and continues to be acceptable to those affected by the system*

3) Two six faced fair dice was rolled together 7 times. The sum of their outcome are as follows: **2 points**

{5, 9, 7, 6, 3, 8, 11}. What is the median of the outcomes?

- 6
- 

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Assignment 8

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4) What is the mean and variance of the data provided in the previous question?

2 points

- Mean=7, Variance=6
- Mean=7, Variance=7
- Mean=7, Variance=8
- Mean=7, Variance=5

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

Mean=7, Variance=6

5) Refer to the machining data available at the URL: <https://drive.google.com/open?id=123MIIKOIBDN4bCJiVpMyaY4QtQzLEhQT>

2 points

What is the percentage saving in overall energy in using MQL over flood methodology for machining in this case?

- 4 %
- 3 %
- 2 %
- 1 %

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

2 %

6) Refer to the machining data available at the URL: <https://drive.google.com/open?id=123MIIKOIBDN4bCJiVpMyaY4QtQzLEhQT>

2 points

What is the overall percentage saving in cutting fluid for using MQL over flood methodology for machining in this case?

- 87.2%
- 90.1%
- 83.9%
- 95.6%

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

87.2%

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