

Lean Six Sigma Practice Test 3
(Answers)

- 1) A Black Belt conducted a study to determine the effect of bonus pay on employee performance evaluation scores at a car manufacturing company. After running a correlation test she discovered that r equaled -0.78 . She concluded that:
 - a) Bonus pay has no effect on employees' performance
 - b) Annual bonus exceeded employees' performance scores
 - c) When bonuses are paid employees tend to increase their performance
 - d) Employee performance seems to suffer with bonuses

- 2) Which of the following is not a formula for the defects per opportunity (DPO) calculation:
 - a) TOP/D
 - b) $D/(U*O)$
 - c) DPU/O
 - d) D/TOP

- 3) A Lean Six Sigma team at a small size real estate company is considering investing its carryover funds of \$500,000 in a downtown parking lot development. The team estimates that the company will make \$70,000 in a year. Another alternative is to invest \$500,000 in a mutual fund with 10% interest. What is the Net Present Value of the downtown parking lot development investment?
 - a) \$70,000
 - b) \$ (28,925)
 - c) \$18,181
 - d) \$430,000

- 4) In measurement system analysis (MSA) reproducibility refers to:
 - a) Same appraiser measuring the same part with the same measurement device getting the same result
 - b) Different appraisers measuring the same part with the same measurement device getting the same result
 - c) Different appraisers measuring the same part with different measurement devices getting the different results
 - d) Same appraiser measuring the same part with the different measurement devices getting the same result

- 5) A newly hired Green Belt was tasked by his supervising Black Belt to calculate C_p . He was given incomplete information showing that USL is 7.2 and Specification Range is 4.3. How much is LSL ?
 - a) Insufficient information to calculate LSL
 - b) 30.96
 - c) 2.9
 - d) 1.67