

Lean Six Sigma Practice Test 11
(Answers)

- 1) Which is a commonly used Design for Six Sigma (DFSS) methodology that among other things focuses on design optimization:
 - a) DMADV
 - b) DMAIC
 - c) SIPOC
 - d) DMADOV
- 2) Simple linear regression is often used during the “analyze” stage of the Six Sigma DMAIC methodology. Which term in the following simple linear regression equation represents the slope?

$$E(Y|x) = \beta_0 + \beta_1x + \varepsilon$$

- a) $E(Y|x)$
 - b) β_0
 - c) β_1
 - d) ε
- 3) Lean Six Sigma practitioners need to be familiar with _____ distribution as it is used to model the number of defects per unit of time/distance?
 - a) Normal
 - b) Exponential
 - c) Poisson
 - d) Bivariate Normal
- 4) Which of the following best describes external failure cost?
 - a) Deficiencies found after delivery of products and services to external customers
 - b) Defects caused by customer after warranty expiration
 - c) Defects associated with delays and rework and detected before delivery
 - d) Deficiencies found over the course of an external audit
- 5) A Lean Six Sigma team at a tire manufacturing company is trying to visualize patterns of winter tire width variation. A Master Black Belt identified 6 intervals (width ranges) where most of the tire width measurements should fall. Which is the most appropriate basic tool of quality to use?
 - a) Run chart
 - b) Individual and moving range chart
 - c) Histogram
 - d) Scatter diagram