

**Lean Six Sigma Practice Test 4
(Answers)**

- 1) A Black Belt presented a failure mode and effects analysis (FMEA) on an SQL database management process. The risk priority number (RPN) for the process is 72. Occurrence and detection are both 3. How much is severity?
a) 8
b) 66
c) 8.125
d) 63
- 2) The Navy is trying to address a problem of declining number of new recruits. A study commissioned by the Navy recruitment office found that there is a sharp demographic decline among the males aged 18 through 25 years. A Lean Six Sigma team will most likely enter this finding in SWOT analysis as:
a) Strength
b) Weakness
c) Opportunity
d) Threat
- 3) A Lean Six Sigma team uses return on investment (ROI) calculation to determine whether to launch a project. Estimated cost is \$136,000. The savings from the project are expected at \$540,570. What is the ROI?
a) 3.97%
b) 39.7%
c) 25%
d) 397%
- 4) A Green Belt needs to use _____ to determine the effect on an output caused by variation in a single input:
a) Multiple regression analysis
b) Linear regression analysis
c) MANOVA
d) FMEA
- 5) Before running a statistical analysis a Black Belt explains to a junior Lean Six Sigma team member that every Chi Square distribution is characterized by these 2 properties:
a) Positive skew and normality
b) Right skew and degree of skew decreasing with increasing degrees of freedom
c) Degrees of freedom equal 2 and degree of skew increasing with increasing degrees of freedom
d) Skew decreases as the degrees of freedom decreases and absence of normality