

Sweet Dreams Answers

Using a PERT analysis, did the critical path(s) change?

1. No, it did not. We designed the GANTT with the critical path in mind. Therefore, through using PERT analysis, our critical paths did not change.

What is the expected duration of your project?

2. 30 weeks and/or 210 days is the expected duration of the project.

What is the expected standard deviation for the critical path?

3. $\sigma = \left[\frac{t_p - t_o}{6} \right] = \frac{30}{6} = 5$

What is the probability of finishing the project one week prior to the Design Expo?

4. The probability of the finishing project will be as follows,

$$z_s = \frac{(T_s - T_e)}{\sigma_T}$$

$$z_s = \frac{(31 - 30)}{5}$$

$$z_s = 0.20$$

$$0.4013 = 0.20$$

$$\rightarrow 40.13\%$$