

## *Probability Statistics With Applications Solution Manual*

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**SOLUTION: All points in the square are equally likely so that probability is the ratio of the area of the circle to the area of the square. The area of the square is 1 and the area of the circle is  $\pi/4$  (since the radius is 1/2). If you don't know  $\pi$  you can estimate it by repeating the experiment a very large number of times.**

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**In Exercise 5.41, we considered a quality control plan ...**

Explanation: Let  $A, B, C$  be the respective events of solving the problem and  $A, B, C$  be the respective events of not solving the problem. Then  $A, B, C$  are independent event.  $\therefore A, B, C$  are independent events. Now,  $P(A) = 1/2, P(B) = 1/3$  and  $P(C) = 1/4$ .  $P(A) = 1/2, P(B) = 1/3, P(C) = 1/4$ .

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So,  $(7.4, 16.6)$  should contain approximately 95% of the values. c. From parts (a) and (b) above,  $95\% - 68\% = 27\%$  lie in both  $(14.3, 16.6)$  and  $(7.4, 9.7)$ . By symmetry, 13.5% should lie in  $(14.3, 16.6)$  so that  $68\% + 13.5\% = 81.5\%$  are in  $(9.7, 16.6)$  d.

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