

Sample L^AT_EX Document with a Figure

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Question:11.16.3.3

Suppose an integer from 1 through 1000 is chosen at random, find the probability that the integer is a multiple of 2 or a multiple of 9. **Solution:**

Declare three random variables X, Y and Z representing the integer is a multiple of 2 or 9 or both 2 & 9.

Parameter	Value	Description
X=2	$\frac{500}{1000} = \frac{1}{2}$	$n \bmod 2 = 0$
X=9	$\frac{111}{1000}$	$n \bmod 9 = 0$
Y=18	$\frac{55}{1000}$	$n \bmod 18 = 0$

TABLE 0: Altitude.

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