

ANSWER TO QUESTION #84160 – MATH – STATISTICS AND PROBABILITY

Let event M = stock market goes up on Monday

T = stock market goes up on Tuesday

Given probability $P(M) = 0.6$

$$P(T / M) = 0.3$$

We need $P(T \cap M)$?

We know that $P(T / M) = \frac{P(T \cap M)}{P(M)}$

$$\Rightarrow P(T \cap M) = P(M)P(T / M) = 0.6 \times 0.3 = 0.18.$$