

Errata for the ASM Study Manual for Exam P, 16-th Edition, 2-nd Printing
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Posted November 10, 2015

In the solution of Problem 3 in Practice Examination 8, the first line of the formula should be:

$$\Pr(E) = \Pr((E \cap F \cap G) \cup (E \cap F \cap G^c) \cup (E \cap F^c \cap G) \cup (E \cap F^c \cap G^c)) =$$

instead of

$$\Pr(E) = \Pr((E \cap F \cap G) \cup (E \cap F \cap G^c) \cup (E \cap F^c \cap G) \cup (E \cap F \cap G^c)) =$$

Posted February 25, 2015

In Problem 11 in Practice Examination 1, the answer choices should be:

A. 14 B. 16 C. 20 D. 40 E. 55

instead of

A. 14 B. 16 C. 20 D. 40 D. 55

Posted February 25, 2015

In Problem 5 in Practice Examination 1, the sentence

The probability that a woman has all three risk factors, given that she has A and B, is $\frac{1}{3}$.

was mistyped as

The probability that a woman has all three risk factors, given that she has A and B, is $\frac{1}{3}$.

The typo is not there in the Solutions statement of the problem.

Posted February 13, 2015

The third sentence of the solution of Problem 14 in Practice Examination 17 should end with the words

10 inches.

instead of

9.2 inches.

Posted January 18, 2015

Assumptions in the Problem 16 of Practice Examination 16 are inconsistent. The last sentence of the problem should be:

If $\Pr(A \cup B) = 0.28$ and $\Pr(C) = 0.80$, what is $\Pr(C|A \cup B)$?

instead of

If $\Pr(A \cup B) = \Pr(C) = 0.8$, what is $\Pr(C|A \cup B)$?

The answer choices should be

A. 0.05 B. 0.10 C. 0.14 D. 0.20 E. 0.25

and the solution should be

We have

$$\begin{aligned}\Pr(C|A \cup B) &= \frac{\Pr(C \cap (A \cup B))}{\Pr(A \cup B)} = \frac{\Pr((A \cap C) \cup (B \cap C))}{0.28} = \\ &= \frac{100}{28} \cdot (\Pr(A \cap C) + \Pr(B \cap C)) = \\ &= \frac{100}{28} \cdot (\Pr(A|C) \cdot \Pr(C) + \Pr(B|C) \cdot \Pr(C)) = \\ &= \frac{100}{28} \cdot (0.05 \cdot 0.8 + 0.05 \cdot 0.8) = \frac{4}{28} \approx 0.14285714.\end{aligned}$$

Answer C.

Posted January 17, 2015

The wording of Problem 3 in Practice Examination 15 is confusing. The expression “any gamble” in the fourth sentence should be replaced by “the first gamble” to clarify the meaning.

Posted January 17, 2015

In Problem 26 in Practice Examination 13, the beginning of the problem should read

You are given that the random variables X and Y are independent instead of

You are given that the random variables X and Y are uniform

Posted April 25, 2014

In Problem 5 in Practice Examination 8, the beginning words of the problem should be: “Let X be a random variable” instead of “Let X be a discrete random variable”.

Posted December 25, 2013

The discrete version of the Darth Vader Rule: $E(X) = \sum_{n=0}^{+\infty} \Pr(X \geq n+1) = \sum_{n=1}^{+\infty} \Pr(X \geq n)$

applies to any discrete nonnegative random variable X that has an expected value, and assumes only integer values. The text says the formula applies to a positive X , but X can be non-negative, i.e., the value of 0 is allowed.