

**BTDI Manual for exam P, Additional Practice Examinations, 2020 Edition**  
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Errata

**Posted October 2, 2020**

**In the solution of Problem 3 in Practice Examination 34, the formula**

$$\Pr(N = 2 | N + S = 2) = \frac{0.12}{0.12 + 0.18 + 0.10} = 0.20.$$

**should be**

$$\Pr(N = 2 | N + S = 2) = \frac{0.12}{0.12 + 0.18 + 0.10} = \frac{0.12}{0.40} = 0.30.$$

**This is only a typo, the correct value is used later in the solution.**

**Posted September 26, 2020**

**In the solution of Problem 3 in Practice Examination 32, there are several places where the exponent of the exponential function was written as 0.02, when it should have been 0.2. The middle part of the solution should look like this:**

In particular,  $P_X(0) = \Pr(X = 0) = e^{-0.2} = \frac{0.2^0}{e^{0.2} \cdot 0!}$ . This implies that for  $n = 0, 1, 2, \dots$ ,

$\Pr(X = n) = \frac{0.2^n}{e^{0.2} \cdot n!}$ . We also have:  $Y = 0$  with probability

$$\Pr(X = 0) + \Pr(X = 1) = e^{-0.2} + \frac{0.2^1}{e^{0.2} \cdot 1!} = \frac{1.2}{e^{0.2}} = 1.2e^{-0.2},$$

while for  $k = 2, 3, \dots$ ,

$$\Pr(Y = k) = \Pr(X = k + 1) = \frac{0.2^{k+1}}{e^{0.2} \cdot (k+1)!}.$$

**Posted September 1, 2020**

**In the statement of Problem 21 in Practice Examination 29 the definition of  $Y$  should be:  $Y = X_1 + \dots + X_{15}$ .**