

MAT-120 – HW #10– Answers

Please select the correct answer number of each question. There are more answers than questions.
Answers may be repeated.

1) This is a probability distribution since $\sum P(x) = 0.977 = 1$

2) This is not a probability distribution since $\sum P(x) = 1$ is not true and $0 \leq P(X) \leq 1$ is not true for each x .

$\mu = 1.900$, rounded to 1.9

$\sigma = 1.66$, rounded to 2.0

3) This is a probability distribution since $\sum P(x) = 1$ is true and $0 \leq P(X) \leq 1$ is true for each x .

$\mu = 1.500$, rounded to 1.5

$\sigma = 0.866$, rounded to 0.9

4) This is a probability distribution since $\sum P(x) = 0.94 = 1$

5) This is not a probability distribution since $\sum P(x) = 0.94 \neq 1$

6) This is a probability distribution since $\sum P(x) = 1$ is true and $0 \leq P(X) \leq 1$ is true for each x .

$\mu = 3.9598$, rounded to 4.0

$\sigma = 0.2010$, rounded to 0.2

7) This is a probability distribution since $\sum P(x) = 1$ is true and $0 \leq P(X) \leq 1$ is true for each x .

$\mu = 0.730$, rounded to 0.7

$\sigma = 0.889$, rounded to 0.9

8) $E = \sum X \cdot P(X) = 0.012$, 1.2 cents

9) This is not a probability distribution since $\sum P(x) = 5 \neq 1$

10) This is not a probability distribution since $\sum P(x) = 0.977 \neq 1$