

NAME: _____

P.I. A2.S.15: Know and apply the binomial probability formula to events involving the term exactly

1. Find the probability of x successes in n trials for the given probability of success p on each trial when $x = 3$, $n = 4$, $p = 0.4$.

[A] 0.846 [B] 0.744
[C] 0.154 [D] 0.256

2. Find the probability of x successes in n trials for the given probability of success p on each trial when $x = 4$, $n = 5$, $p = 0.3$.

[A] 0.041 [B] 0.028
[C] 0.972 [D] 0.960

3. Find the probability of x successes in n trials for the given probability of success p on each trial when $x = 7$, $n = 9$, $p = 0.6$.

[A] 0.403 [B] 0.161
[C] 0.597 [D] 0.839

4. Find the probability of x successes in n trials for the given probability of success p on each trial when $x = 5$, $n = 9$, $p = 0.1$.

5. Find the probability of x successes in n trials for the given probability of success p on each trial when $x = 4$, $n = 7$, $p = 0.2$.

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6. Find the probability of x successes in n trials for the given probability of success p on each trial when $x = 3$, $n = 5$, $p = 0.8$.

9. Rita's batting average is 0.275. What is the probability that she will get 3 hits in her next 7 at bats? Use a graphing calculator.

7. Find the probability of x successes in n trials for the given probability of success p on each trial when $x = 7$, $n = 8$, $p = 0.3$.

10. The soccer league in Hightstown has 6 teams.

Team	Winning Percentage
Storm	52.5%
Mustangs	42.3%
Stars	27.1%
Tornados	45.7%
Hurricanes	50.4%
Stallions	48.3%

Find the probability that the Tornados will win three of their next five games.

8. The next three days, the probability of rain is 90%. What is the probability that it will rain exactly two out of the three days?

[1] C

[2] B

[3] B

[4] 0.001

[5] 0.029

[6] 0.205

[7] 0.001

[8] 24.3%

[9] 20.1%

[10] 28.1%