

Binomial_Distribution

- _____ 1. A survey of high school juniors found that 82% of students plan on attending college. If you pick three students at random, what is the probability that at least two plan on attending college? Round to the nearest percent.
- a. 91% b. 9% c. 45% d. 36%
- _____ 2. A poll shows that 81% of voters in a city favor an initiative to increase spending on public schools. If 10 voters are selected at random, what is the probability that exactly five of them will vote in favor of the initiative?
- a. 7% b. 12% c. 2.2% d. 30%
- _____ 3. A survey of high school juniors found that 79% of students plan on attending college. If you pick three students at random, what is the probability that at least two plan on attending college? Round to the nearest percent.
- a. 89% b. 11% c. 39% d. 51%
- _____ 4. A poll shows that 78% of voters in a city favor an initiative to increase spending on public schools. If 10 voters are selected at random, what is the probability that exactly five of them will vote in favor of the initiative?
- a. 28% b. 14% c. 3.7% d. 9%
5. Betsy is flipping a coin. The two possible outcomes are heads or tails. What is the probability that the result will have exactly 18 tails after 27 flips? Express your answer rounded to five decimal places.
6. Steve is rolling a 20-sided die. What is the probability that the result will have exactly 3 twos after 6 rolls? Express your answer rounded to five decimal places.
7. Billy is flipping a coin. The two possible outcomes are heads or tails. What is the probability that the result will have exactly 18 tails after 29 flips? Express your answer rounded to five decimal places.
8. Betsy is rolling a 18-sided die. What is the probability that the result will have exactly 5 nines after 8 rolls? Express your answer rounded to five decimal places.

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Answer Section

1. A
2. C
3. A
4. C
5. 0.03492
6. 0.00214
7. 0.06444
8. 0.00003

