

68. How to calculate the probability of something not happening



Scenario Questions:

1. Sahar is taking a multiple-choice test with four possible answers for each question. The probability that she answers a question correctly is 0.25. What is the probability she gets it wrong?

2. John is playing a game where he has a 60% chance of scoring a goal. What is the probability that he does not score a goal?

3. Ewa is attending a concert where there's a 90% chance of her favourite band performing. What is the probability that her favourite band does not perform?

4. Anand is flipping a bias coin. The probability that he flips heads is 0.4. What is the probability that he does not flip heads?

5. Lily is going on a vacation and there's a $\frac{3}{4}$ chance that it will be sunny during her trip. What is the probability that it will not be sunny?

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Scenario Questions:

6. Bob is ordering a pizza and there's a $\frac{4}{5}$ chance that it will have pepperoni as a topping. What is the probability that it will not have pepperoni?

7. Rizwan is buying a lottery ticket and there's a 20% chance that he will win a prize. What is the probability that he will not win a prize?

8. Sarah is catching a train to work and there's a 95% chance that the train will be on time. What is the probability that the train will not be on time?

9. Lucy is buying a lottery ticket and there's a 2% chance of winning the jackpot. What is the probability that she will not win the jackpot?

10. Emily is attending a party and there's a 0.72 chance of there being live music. What is the probability that there will not be live music?

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Scenario Questions: **Answers**

1. Sahar is taking a multiple-choice test with four possible answers for each question. The probability that she answers a question correctly is 0.25. What is the probability that she does not answer a question correctly?

1. The probability is 0.75

2. John is playing a game where he has a 60% chance of scoring a goal. What is the probability that he does not score a goal?

2. The probability is 40%

3. Ewa is attending a concert where there's a 90% chance of her favourite band performing. What is the probability that her favourite band does not perform?

3. The probability is 10%

4. Anand is flipping a fair coin. The probability that he flips heads is 0.4. What is the probability that he does not flip heads?

4. The probability is 0.6

5. Lily is going on a vacation and there's a $\frac{3}{4}$ chance that it will be sunny during her trip. What is the probability that it will not be sunny?

5. The probability is $\frac{1}{4}$

6. Bob is ordering a pizza and there's a $\frac{4}{5}$ chance that it will have pepperoni as a topping. What is the probability that it will not have pepperoni?

6. The probability is $\frac{1}{5}$

7. Rizwan is buying a lottery ticket and there's a 20% chance that he will win a prize. What is the probability that he will not win a prize?

7. The probability is 80%

8. Sarah is catching a train to work and there's a 95% chance that the train will be on time. What is the probability that the train will not be on time?

8. The probability is 5%

9. Lucy is buying a lottery ticket and there's a 2% chance of winning the jackpot. What is the probability that she will not win the jackpot?

9. The probability is 98%

10. Emily is attending a party and there's a 0.72 chance of there being live music. What is the probability that there will not be live music?

10. The probability is 0.28