

A Selection of Word Problems for Probability & Odds
Probability of success = P(?) Probability of failure = P*(?)
Success is defined as getting something in the Sample Space!
Failure is defined as not getting something in the Sample Space!

1. A box contains 6 marbles: 1 Red, 2 White, 3 Blue. If a marble is randomly drawn from the box, what is the probability that it will be white?

Box contains ___ marbles Box contains ___ white marbles $P(w) = \underline{\hspace{2cm}}$

2. A spinner contains 5 equal regions: 3 regions contain A,B,C and 2 regions contain 1,2. If the spinner is turned, what is the probability that a (Letter region) will stop at the top?

Spinner has ___ regions with ___ Letter & ___ Number regions $P(L) = \underline{\hspace{2cm}}$ $P*(L) = \underline{\hspace{2cm}}$
Odds of a (Letter) region stopping at the top is $O_L (\underline{\hspace{1cm}} / \underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$

3. A cup contains 7 coins: 4 are dimes, 2 are nickels, 1 is a penny. If a coin is randomly drawn from the cup, what is the probability that it is not a nickel?

Cup contains ___ coins Cup contains ___ coins not nickels $P*(n) = \underline{\hspace{2cm}}$

4. A large wall contains 4 equal regions: 1 region is White, 3 regions are Black. If a dart is thrown at the wall and hits the wall, what is probability of the dart hitting green?

Square contains ___ regions Square contains ___ green regions $P(g) = \underline{\hspace{2cm}}$

5. A box contains 6 marbles: 1 Red, 2 White, 3 Blue. If a marble is randomly drawn from the box, what is the probability that it will be red?

Box contains ___ marbles Box contains ___ red marbles $P(w) = \underline{\hspace{2cm}}$

6. A spinner contains 5 equal regions: 3 regions contain A,B,C and 2 regions contain 1,2. If the spinner is turned, what is the probability that a (Number) will stop at the top?

Spinner has ___ regions with ___ Letter & ___ Number regions $P(N) = \underline{\hspace{2cm}}$ $P*(N) = \underline{\hspace{2cm}}$
Odds of a (Number) region stopping at the top is $O_N (\underline{\hspace{1cm}} / \underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$

7. A cup contains 7 coins: 4 are dimes, 2 are nickels, 1 is a penny. If a coin is randomly drawn from the cup, what is the probability that it is not a nickel?

Cup contains ___ coins Cup contains ___ coins not a penny $P*(n) = \underline{\hspace{2cm}}$

8. A large wall contains 4 equal regions: 1 region is White, 3 regions are Black. If a dart is thrown at the wall and hits the wall, what is probability of the dart hitting W or B?

Wall contains ___ regions Wall contains ___ regions $P(c) = \underline{\hspace{2cm}}$