

2006 Middlementary Math Bonanza

Probability Test Excerpt

1. When three fair coins are flipped, what is the probability that all three land heads up?
2. When two cards are drawn from a standard 52-card deck, what is the probability that the two cards are of equal rank (e.g. two Jacks)?
3. When three standard dice are rolled, what is the probability that the product of the numbers shown on their upper faces is eight?
4. If the probability of Doug doing his homework is $\frac{1}{2}$, the probability that Doug passes his test is $\frac{3}{5}$, and the probability that he does both is $\frac{2}{5}$, what is the probability that Doug does his homework but does not pass his test?
5. A bag contains five red, three white, and seven blue marbles. If two marbles are randomly drawn from the bag, what is the probability that both marbles are red?