

Question #15174 in throwing a pair of dice, find the probability of getting a doublet or a total of 4? (its answer is given 2/9 in a book but i got 1/9)

Solution. In this question the space of elementary events is $\Omega = \{(i, j) | 1 \leq i, j \leq 6\}$, hence $|\Omega| = 36$. We are interested in the event $A = \{\text{getting a doublet or a total of 4}\} = \{(1, 1), (1, 3), (3, 1), (2, 2), (3, 3), (4, 4), (5, 5), (6, 6)\}$, thus $|A| = 8$, so $P(A) = 8/36 = 2/9$.

Answer. 2/9.