

Test 2-Probab&Stat.

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1. From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings?

A. $1/15$

B. $25/57$

C. $35/256$

D. $1/221$

2. In a playoff series, the probability that Team A wins over Team B is $\frac{3}{5}$ and the probability that Team C wins over Team D is $\frac{4}{7}$. If the events are independent, the probability that Team A wins and Team C loses is:

A. $\frac{9}{35}$

B. $\frac{12}{35}$

C. $\frac{7}{12}$

D. $\frac{1}{3}$

3. Three unbiased coins are tossed. What is the probability of getting **at most** one head?

A. $1/4$

B. $1/2$

C. $3/8$

D. $7/8$

4. In a particular production run, 20% of the chips are subjected to high levels of contamination, 30% to medium levels of contaminations, and 50% to low levels of contamination. Probabilities for product failure subject to the mentioned above levels of contamination are as follows: 0.10 for high, 0.01 for medium and 0.001 for low. The probability that a product using one of these chips fails is

A. 0.2350

B. 0.0235

C. 0.0200

D. 0.0230

5. A grocery store obtains 35% of its produce from vendor A, and 65% of its produce from vendor B. It is expected that spoilage will result in 12% of vendor A's produce and 17% of vendor B's produce will be discarded. The probability of event that a randomly picked item came from vendor A, given that it was picked from the discarded pile, is:

A. $22/91$

B. $44/187$

C. $84/305$

D. $33/101$