Congratulations! You passed!

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Go to next item

1. You repeatedly roll a die (some large number of times, say 1M) and come up with the following probability of roll results for spots 1-6 in order: {0.14,0.10,0.20,0.14,0.14,0.28}. The probability of rolling a 3 is greater than that of rolling a 4.

1/1 point

- False
- True
 - **Correct** P(3) = 0.2 > P(4) = 0.14
- 2. The die in the previous question is fair.

1/1 point

- True
- False
 - **⊘** Correct

The listed probabilities are not identical.

3. You toss a both a fair coin and a fair die simultaneously. The sample space is

1/1 point

- A: {(HT),(1,2,3,4,5,6)}
- B: {(H,1),(H,2),(H,3),(H,4),(H,5),(H,6),(T,1),(T,2),(T,3),(T,4),(T,5),(T,6)}

$\langle \rangle$	Correct
($^{\vee}$)	COLLEC

correct, the elementary outcomes given by the results pairs (coin, die) are enumerated with all possible pairs

4. In this game of tossing a coin and die, the die comes up 6. What is the probability of the coin landing heads?

1/1 point

- A: 0.5
- B: 0.8
 - **⊘** Correct

Correct, having observed the 6, we are left with the probability of heads vs tails

5. You do the game twice, in the first trial, it came up (H,6). What is the probability that event will occur in the second go?

1/1 point

- B: 0.08
- A: 0.69

Correct, in a single trial P(H) = 1/2 while P(6) = 1/6; P(H,6) = P(H)P(6) = 1/12 = 0.08