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ADS 1: Problem 5

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Entered	Answer Preview	Result
1024	1024	correct
120	120	correct
1013	1013	correct
848	848	correct

All of the answers above are correct.

(2 pts) A coin is tossed 10 times.

a) How many different outcomes are possible?

1024 = 2^{10}

b) How many different outcomes have exactly 3 heads?

120 = $C(10,3)$

c) How many different outcomes have at least 2 heads ?

1013 = $2^{10} - C(10,0) - C(10,1)$

d) How many different outcomes have at most 6 heads?

848 = $2^{10} - C(10,0) - C(10,1) - C(10,2) - C(10,3)$

Note: You can earn partial credit on this problem.

Preview Answers

Submit Answers

Your score was recorded.

You have attempted this problem 2 times.

You received a score of 100% for this attempt.

Your overall recorded score is 100%.

You have unlimited attempts remaining.

Email instructor