Probability and Combinatorics — Practice Test

Prince Edward Island Foundations of Mathematics 12 • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The number of combinations of 3 items chosen from 12 distinct items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The value of 6 factorial divided by 3 factorial is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The value of 5 factorial is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Two events are independent when one occurring does not change**

A the event order

B the probability of the other

C the sample size

D the total outcomes

Understand It with Pulse | Flag a mistake

5 **Two events are mutually exclusive when they**

A have equal probability

B are independent

C cannot both occur

D always occur together

Understand It with Pulse | Flag a mistake

6 **Two fair coins are tossed. The probability of exactly one head as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The number of combinations of 5 items chosen from 5 distinct items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The value of 7 factorial divided by 5 factorial is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The value of 4 factorial is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The number of combinations of 4 items chosen from 9 distinct items is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	220	**5.**	C	**9.**	24
2.	120	**6.**	0.5	**10.**	126
3.	120	**7.**	1		
4.	B	**8.**	42		

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