PRINCE EDWARD ISLAND PRE-CALCULUS ELECTIVE 11 · UNIT D · 25 QUESTIONS

Probability — Practice Test

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 **A fair die is rolled 2 times in a row. How many different sequences of results are possible in total**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A spinner has 2 equal sections, and 1 of the sections are shaded. The spinner is spun once. What is the probability of landing on a shaded section, as a decimal**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Two independent events have probabilities $\frac{1}{2}$ and $\frac{1}{3}$. What is the probability that both events happen , to three decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A card is drawn at random from a standard deck of 52 cards. What is the probability of drawing a king, as a decimal to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A card is drawn at random from a standard deck of 52 cards. What is the probability of drawing a red card, as a decimal to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A card is drawn at random from a standard deck of 52 cards. What is the probability of drawing an ace, as a decimal to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A probability experiment repeated many times tends toward its**

A sample mean

B median

C mode

D theoretical probability

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8 **A tree diagram shows all possible**

A means

B medians

C modes

D outcomes of a multi stage experiment

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9 **An experiment with equally likely outcomes has probability equal to favourable outcomes divided by**

A unfavourable outcomes

B total outcomes

C trials

D samples

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10 **Choosing 2 items from 5 where order does not matter is a**

A permutation

B combination

C probability

D sample

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11 **Choosing 2 items from 5 where order matters is a**

A combination

B probability

C permutation

D sample

Understand It with Pulse | Flag a mistake

12 **Drawing with replacement means a drawn item is**

A put back before the next draw

B not put back

C discarded

D counted twice

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13 **Drawing without replacement means a drawn item is**

A put back before the next draw

B ignored

C counted twice

D not put back before the next draw

Understand It with Pulse | Flag a mistake

14 **If events A and B are independent, P of A and B equals**

A P of A + P of B

B P of A - P of B

C P of A × P of B

D 1

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15 **If events A and B are mutually exclusive, P of A or B equals**

A P of A × P of B

B P of A + P of B

C P of A - P of B

D 1

Understand It with Pulse | Flag a mistake

16 **If P of an event is 0.25, then P of its complement is**

A 0.25

B 1.25

C 0

D 0.75

Understand It with Pulse | Flag a mistake

17 **Probability is a number between 0 and 1 that measures**

A how likely an event is

B how many outcomes exist

C the size of a sample

D the mean

Understand It with Pulse | Flag a mistake

18 **The complement of an event is the event**

A always happening

B happening twice

C not happening

D never happening

Understand It with Pulse | Flag a mistake

19 The expected number of heads in 100 tosses of a fair coin is

- A 100
- B 50
- C 25
- D 75

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20 The expected number of sixes in 60 rolls of a fair die is

- A 60
- B 30
- C 10
- D 6

Understand It with Pulse | Flag a mistake

21 **A fair die is rolled 3 times in a row. How many different sequences of results are possible in total**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A spinner has 4 equal sections, and 1 of the sections are shaded. The spinner is spun once. What is the probability of landing on a shaded section, as a decimal**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Two independent events have probabilities $\frac{1}{3}$ and $\frac{1}{4}$. What is the probability that both events happen , to three decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A fair die is rolled 4 times in a row. How many different sequences of results are possible in total**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A spinner has 4 equal sections, and 3 of the sections are shaded. The spinner is spun once. What is the probability of landing on a shaded section, as a decimal**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	36	**10.**	B	**19.**	B
2.	0.5	**11.**	C	**20.**	C
3.	0.167	**12.**	A	**21.**	216
4.	0.08	**13.**	D	**22.**	0.25
5.	0.5	**14.**	C	**23.**	0.083
6.	0.08	**15.**	B	**24.**	1296
7.	D	**16.**	D	**25.**	0.75
8.	D	**17.**	A		
9.	B	**18.**	C		

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