SASKATCHEWAN PRE-CALCULUS 30 · UNIT E

Permutations, Combinations and the Binomial Theorem — Practice Test

Saskatchewan Pre-Calculus 30 • 25 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 ways to arrange 2 playing cards chosen from 10 different cards is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **In the expansion of $(1 + x)^9$, the coefficient of x^4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **In the expansion of $(x + y)^{10}$, the number of terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The number of combinations of 15 objects taken 2 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The number of ways to arrange 2 marbles chosen from 12 different marbles in a row is**



ANSWER

Understand It with Pulse | Flag a mistake

6 **The number of permutations of 12 different objects is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **A committee of 3 is chosen from 6 people. The number of possible committees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A president and a secretary are chosen from 5 people, with no person holding both roles. The number of ways is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **In the expansion of $(1 + x)^6$, the coefficient of x^3 is**

ANSWER _____

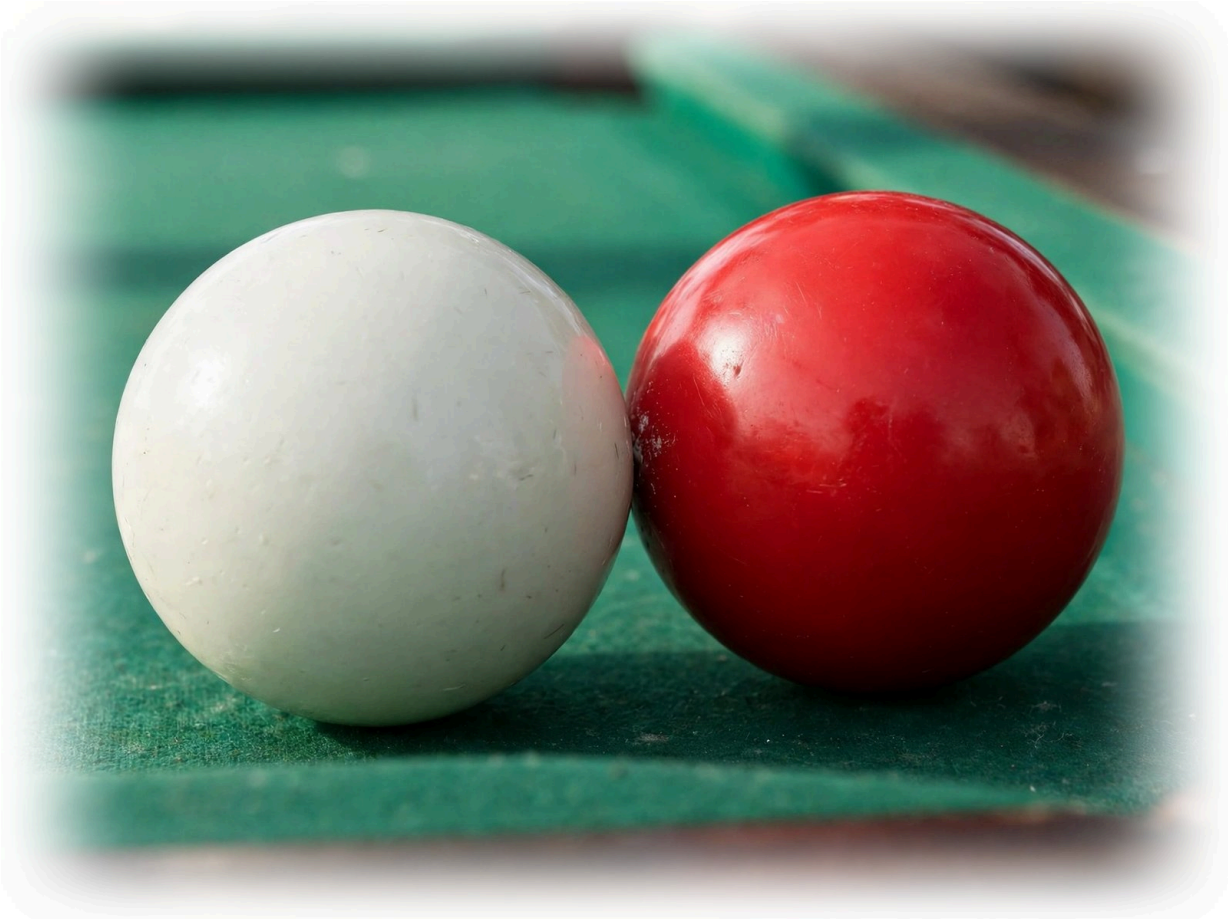
Understand It with Pulse | Flag a mistake

10 **In the expansion of $(x + y)^8$, the number of terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **The number of ways to choose 5 billiard balls from 15 different billiard balls is**



ANSWER

Understand It with Pulse | Flag a mistake

12 **The number of permutations of 6 objects taken 4 at a time is**

ANSWER

Understand It with Pulse | Flag a mistake

13 **The number of permutations of 4 different objects is**

ANSWER

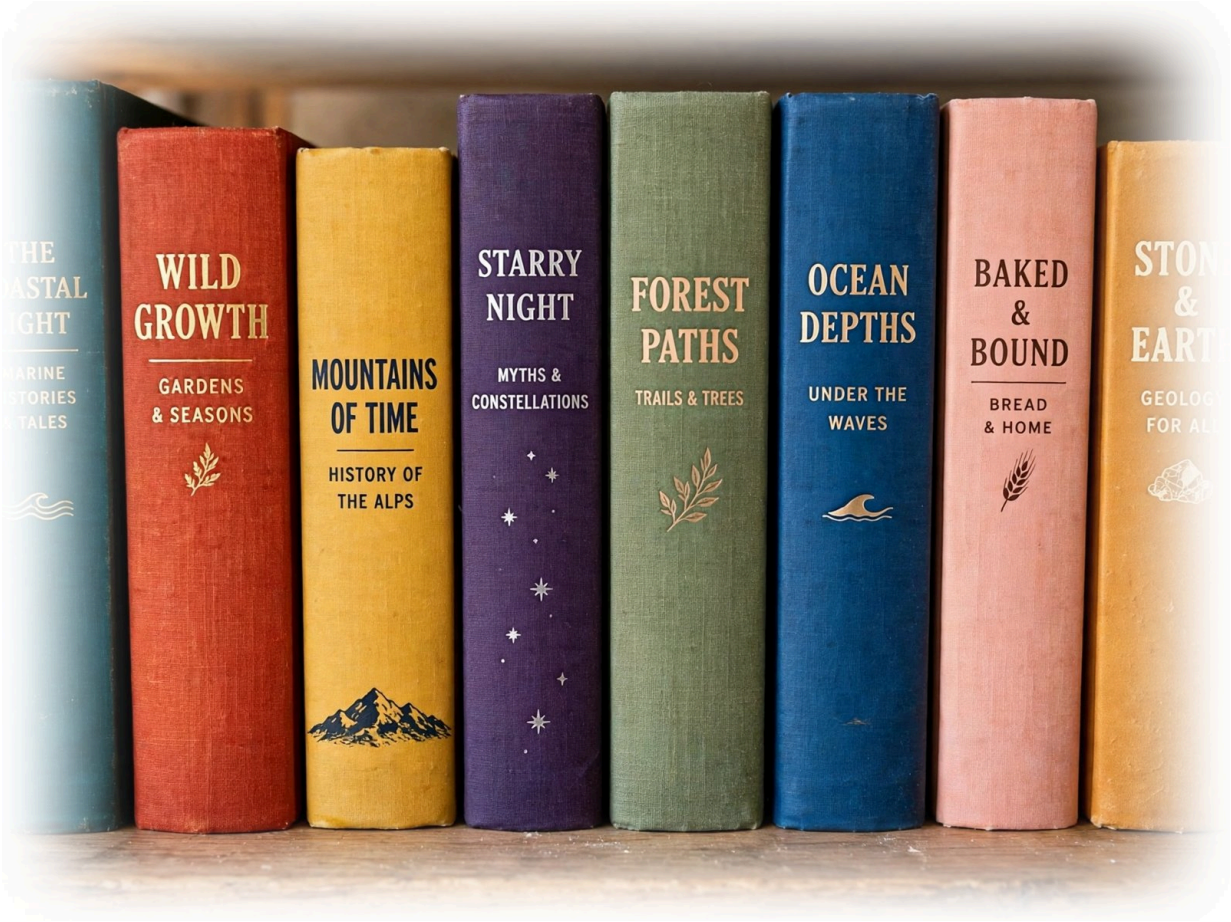
Understand It with Pulse | Flag a mistake

14 **A committee of 3 is chosen from 8 people. The number of possible committees is**

ANSWER

Understand It with Pulse | Flag a mistake

15 **The number of ways to arrange 2 books chosen from 8 different books in a row is**



ANSWER _____

Understand It with Pulse | Flag a mistake

16 **In the expansion of $(1 + x)^7$, the coefficient of x^3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **In the expansion of $(x + y)^{12}$, the number of terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The number of combinations of 13 objects taken 4 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The number of permutations of 10 objects taken 2 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The number of ways to arrange 6 different books in a row is**



ANSWER

Understand It with Pulse | Flag a mistake

21 **A president and a secretary are chosen from 6 people, with no person holding both roles. The number of ways is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **In the expansion of $(1 + x)^9$, the coefficient of x^2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **In the expansion of $(x + y)^4$, the number of terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **The number of combinations of 7 objects taken 3 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The number of ways to arrange 3 flags chosen from 9 different flags in a row is**



ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	90	**10.**	9	**19.**	90
2.	126	**11.**	3003	**20.**	720
3.	11	**12.**	360	**21.**	30
4.	105	**13.**	24	**22.**	36
5.	132	**14.**	56	**23.**	5
6.	479001600	**15.**	56	**24.**	35
7.	20	**16.**	35	**25.**	504
8.	20	**17.**	13		
9.	20	**18.**	715		

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