

Factorials - MCQ

1) Which of the following is the simplest form of $\frac{(n+2)!}{(n+1)!}$?

- a) $(n+2)!$ b) $(n+1)!$ c) $n+2$ d) $\frac{1}{(n+1)!}$

2) Which of the following is equivalent to $30(4)!$?

- a) $6! + 0!$ b) $6!$ c) $5!$ d) $(6+1)!$

3) Which of the following is true?

- a) $\frac{(n+1)!}{(n-1)!} = n^2 + n$ b) $\frac{(n+1)!}{(n-1)!} = n^2 - n$ c) $\frac{(n+1)!}{(n-1)!} = n^2 + 1$ d) $\frac{(n-1)!}{(n+1)!} = n^2$

4) $1! = a - 3!$, find the value of a .

- a) 7 b) 6 c) 5 d) 4

5) What is the HCF of $12!$ and $15!$?

- a) $(n+1)!$ b) $(n+2)!$ c) $(n+3)!$ d) $(n+4)!$

6) What is the value of $7!$?

- a) 15 b) 8 c) 1 d) 7

7) Which of the following is a perfect square?

- a) $4! - 1$ b) $4!$ c) $4! + 8$ d) $4! - 8$

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