

**Factorials - MCQ**

1) Which of the following is equivalent to  $\sqrt{(7 + 2!)}$ ?

- a)  $3!$                       b)  $3 + 0!$                       c)  $3(3!)$                       d)  $2! + 1!$

2)  $\frac{6(3!)}{2! + 0!} = ?$

- a)  $4! - 6(2!)$                       b)  $4! + 6(2!)$                       c)  $4(3!) + 5(2!)$                       d)  $(5 - 2)!$

3) Which of the following is equal to  $(n + 1)!$ ?

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

4) What is the LCM of  $(n - 3)!$  and  $(n - 7)!$ ?

- a)  $(n - 3)!$                       b)  $(n - 7)!$                       c)  $(n - 3)!(n - 7)!$                       d)  $(n - 7)!$

5)  $5! = g(4!) - 4!$ , find  $g$ .

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

6) Which of the following is true?

- a)  $1! 3! = 3(2!)$                       b)  $3! + 3! = 6!$                       c)  $5! = 5(4!) - 1!$                       d)  $5! - 0! = 4!$

7) Which of the following is the least number?

- a)  $2! + 0!$                       b)  $3! - 2$                       c)  $3! - 3(2!)$                       d)  $3! - 2(2!)$

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