

## 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)  $\frac{(n+1)!}{(n-1)!} = n^2 + 2n$                       b)  $\frac{(n+1)!}{(n-1)!} = n^2 - n$                       c)  $\frac{(n+1)!}{(n-1)!} = n^2 + n$                       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  $10!$  and  $12!$ ?

- 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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**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)  $\frac{(n+1)!}{(n-1)!} = n^2 + n$

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

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

a) 7

d) 4

5) What is the HCF of  $12n^2$  and  $18n^3$ ?

a)  $(n+1)!$

d)  $(n+2)!$

6) What is the value of  $5! - 4!$ ?

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)  $4! - 8$