

Name : _____

Factorials - MCQ

Sheet 4

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

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

2) Which of the following is the greatest number?

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

3) What is the HCF of

- a) $23!$ d) $26! - 24!$

4) Which of the following

a) $\frac{5!}{5} = (3! + 2)!$

d) $8(3!) - 4! = 4!$

5) Which of the following

a) $(n + 5)!$

d) $n + 3$

6) $(4n + 1)! = 120$, find

- a) 1 b) 30 c) 2 d) 5

7) Which of the following is equivalent to $(n - 2)!$?

a) $\frac{n - 1}{(n - 1)!}$

b) $\frac{n - 2}{(n - 2)!}$

c) $\frac{(n - 1)!}{n - 1}$

d) $\frac{(n - 2)!}{n - 2}$

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