

# Chapter 6

## Binomial Expansion



# Table 6-1: Factorial illustrated

| Example | Read as      | Solution (A)                                                | Solution (B)                                                |
|---------|--------------|-------------------------------------------------------------|-------------------------------------------------------------|
| 3!      | 3-factorial  | $3! = 3 \times 2 \times 1 = 6$                              | $3! = 1 \times 2 \times 3 = 6$                              |
| 6!      | 6-factorial  | $6! = 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 720$ | $6! = 1 \times 2 \times 3 \times 4 \times 5 \times 6 = 720$ |
| 10!     | 10-factorial | $10! = 10 \times 9 \times 8 \times 7 \times 6!$             | $10! = 6! \times 7 \times 8 \times 9 \times 10$             |



# Thank You

