FUN MATH KIDS

Easy

Binomial Expansion MCQ

Topic: Expand using binomial theorem, choose A–D · Grade: grade 8

Name: _____ Date: _____ Score: _____/ 8

Use the binomial theorem to find each coefficient, then tick the correct answer.

1. What is the coefficient of x in the expansion of $(x + 2)^3$?

- ☐ A. 6
- ☐ B. 12
- ☐ C. 8
- ☐ D. 4

2. What is the coefficient of x in the expansion of $(x + 6)^2$?

- ☐ A. 12
- ☐ B. 36
- ☐ C. 6
- ☐ D. 13

3. What is the coefficient of x^2 in the expansion of $(x + 5)^3$?

- ☐ A. 75
- ☐ B. 15
- ☐ C. 5
- ☐ D. 10

4. What is the coefficient of x^2 in the expansion of $(x + 2)^3$?

- ☐ A. 4
- ☐ B. 12
- ☐ C. 6
- ☐ D. 2

5. What is the coefficient of x in the expansion of $(x + 1)^2$?

- ☐ A. 3?
- ☐ B. 1
- ☐ C. 2
- ☐ D. 3

6. What is the coefficient of x in the expansion of $(x + 6)^2$?

- ☐ A. 12
- ☐ B. 6
- ☐ C. 36
- ☐ D. 13

7. What is the coefficient of x^2 in the expansion of $(x + 1)^3$?

- ☐ A. 2
- ☐ B. 3?
- ☐ C. 1
- ☐ D. 3

8. What is the coefficient of x in the expansion of $(x + 5)^2$?

- ☐ A. 5
- ☐ B. 11
- ☐ C. 10
- ☐ D. 25