

Guided Practice

1. Evaluate.

- a. $\frac{20!}{18!} = 380$ b. $\frac{8!}{5!3!} = 56$
 c. $\frac{10!}{2!8!} = 45$ d. $\frac{(x+1)!}{(x-1)!} = x(x+1)$

Write the first four terms in the expansion of each of the following.

2. $(a-x)^{18}$
 $a^{18} - 18a^{17}x + 153a^{16}x^2 - 816a^{15}x^3$
 3. $(1+2x)^{16}$
 $1 + 32x + 480x^2 + 4480x^3$
 4. Find the term containing x^6 in $(x+y)^{12}$.
 $792x^6y^6$
 5. Find the term containing y^2 in $(2x-y)^8$.
 $-1792x^6y^2$
 6. Find the fifth term of $(1+y^2)^6$. $15y^8$

Summarizing the Lesson

In this lesson students learned about factorial notation and the binomial theorem. Students then learned to use the binomial theorem to find a particular term of a binomial expansion. Ask students to state the $(k+1)$ st term in the expansion of $(a+b)^n$.

Suggested Assignments

Average Algebra
 542/1-13, 15-27 odd
 S 534/P: 8, 10
 R 543/Self-Test 3
 Average Alg. and Trig.
 542/1-13, 15-27 odd
 R 543/Self-Test 3

This means you can write the binomial theorem in a compact form using sigma notation:

$$(a+b)^n = \sum_{k=0}^n \frac{n!}{(n-k)!k!} a^{n-k} b^k$$

Oral Exercises

Evaluate.

1. $3! = 6$ 2. $2! = 2$ 3. $\frac{5!}{4!} = 5$ 4. $\frac{11!}{9!} = 110$
 5. $\frac{4!}{3!1!} = 4$ 6. $\frac{5!}{2!3!} = 10$ 7. $\frac{6!}{4!2!} = 15$ 8. $\frac{4!}{4!1!} = 1$
 9. Give the coefficient of the third term in the expansion of each of the following.
 a. $(a+b)^{10} = 45$ b. $(c-d)^8 = 28$ c. $(x+2y)^5 = 40$
 10. Give (a) the power of a and (b) the power of b for the given term in the expansion of $(a+b)^{20}$.
 a. The fifth term b. The eleventh term
 (a) 16 (b) 4 (a) 10 (b) 10

Written Exercises

Evaluate.

- A 1. $6! = 720$ 2. $7! = 5040$ 3. $\frac{5!}{3!} = 20$ 4. $\frac{8!}{7!} = 8$
 5. $\frac{100!}{99!} = 100$ 6. $\frac{20!}{18!} = 380$ 7. $\frac{10!}{7!3!} = 120$ 8. $\frac{10!}{4!6!} = 210$
 9. $\frac{(n+1)!}{n!} = n+1$ 10. $\frac{n!}{(n-2)!} = n^2 - n$ 11. $\frac{(n+1)!}{(n-1)!2!} = \frac{n^2+n}{2}$ 12. $\frac{n!}{3!(n-3)!}$

Write the first four terms in the expansion of each of the following.

13. a. $(a+b)^{14}$ 14. a. $(a+b)^{12}$ 15. a. $(a+b)^{20}$ 16. a. $(a+b)^{21}$
 b. $(a-b)^{14}$ b. $(a-b)^{12}$ b. $(x-2y)^{18}$ b. $(c-d^2)^{21}$

Find and simplify the specified term in each expansion.

17. The term containing b^5 in $(a+b)^{20}$ 18. The term containing b^{13} in $(a-b)^{27}$
 $15,504a^{15}b^5$ $-105a^2b^{13}$
 19. The eleventh term of $(x-y)^{14}$ 20. The eighteenth term of $(x+t)^{18}$
 $1001x^4y^{10}$ $18x^{17}t$
 B 21. The term containing a^4 in $(a+2b)^7$ 22. The term containing x^2 in $(2x-y)^7$
 $4032a^4b^3$ $-64x^2y^5$
 23. The middle term of $(c^2-2d)^8$ 24. The term containing b^8 in $(a+3b^2)^4$
 $1120c^6d^2$ $270a^2b^8$

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