

**11-7 Skills Practice*****The Binomial Theorem*****Evaluate each expression.**

1.  $8!$

2.  $10!$

3.  $12!$

4.  $\frac{15!}{13!}$

5.  $\frac{6!}{3!}$

6.  $\frac{10!}{2!8!}$

7.  $\frac{9!}{3!6!}$

8.  $\frac{20!}{15!5!}$

**Expand each power.**

9.  $(x - y)^3$

10.  $(a + b)^5$

11.  $(g - h)^4$

12.  $(m + 1)^4$

13.  $(r + 4)^3$

14.  $(a - 5)^4$

15.  $(y - 7)^3$

16.  $(d + 2)^5$

17.  $(x - 1)^4$

18.  $(2a + b)^4$

19.  $(c - 4d)^3$

20.  $(2a + 3)^3$

**Find the indicated term of each expansion.**

21. fourth term of  $(m + n)^{10}$

22. seventh term of  $(x - y)^8$

23. third term of  $(b + 6)^5$

24. sixth term of  $(s - 2)^9$

25. fifth term of  $(2a + 3)^6$

26. second term of  $(3x - y)^7$