Task card 1 The Binomial Theorem

Find the coefficient of xy^4 in the expansion of $(x + y)^5$.

Task card 2 The Binomial Theorem

Find the coefficient of x^5 in the expansion of $(x + 2)^6$.

Task card 3 The Binomial Theorem

Find the coefficient of $x^3 y$ in the expansion of $(x + y)^4$.

Task card 4 The Binomial Theorem

Find the coefficient of x in the expansion of $(x + 2)^4$.

Task card 5 The Binomial Theorem

Find the coefficient of $x^2 y^2$ in the expansion of $(x + y)^4$.

Task card 6 The Binomial Theorem

Find the coefficient of x^4 in the expansion of $(x + 3)^5$.

Task card 7 The Binomial Theorem

Find the coefficient of xy^3 in the expansion of $(x + y)^4$.

Task card 8 The Binomial Theorem

Find the coefficient of x in the expansion of $(x + 1)^4$.

Task card 9 The Binomial Theorem

Find the coefficient of x in the expansion of $(x + 2)^5$.

Task card 10 The Binomial Theorem

Find the coefficient of x in the expansion of $(x + 3)^3$.

Task card 11 The Binomial Theorem

Find the coefficient of x^4 in the expansion of $(x + 1)^6$.

Task card 12 The Binomial Theorem

Find the coefficient of x^3 in the expansion of $(x + 2)^4$.

Task card 13 The Binomial Theorem

Find the coefficient of x in the expansion of $(x + 2)^3$.

Task card 14 The Binomial Theorem

Find the coefficient of x^2 in the expansion of $(x + 1)^4$.

Task card 15 The Binomial Theorem

Find the coefficient of x in the expansion of $(2x + 1)^5$.

Task card 16 The Binomial Theorem

Find the 6th term of the expansion of $(x + 3)^6$, written in descending powers of x.

Task card 17 The Binomial Theorem

Find the coefficient of $x^4 y^2$ in the expansion of $(x + y)^6$.

Task card 18 The Binomial Theorem

Find the coefficient of x^2 in the expansion of $(x + 2)^3$.

Task card 19 The Binomial Theorem

Find the 2nd term of the expansion of $(x + 2)^6$, written in descending powers of x.

Task card 20 The Binomial Theorem

Find the coefficient of x in the expansion of $(x - 1)^6$.

Task card 21 The Binomial Theorem

Find the coefficient of $x^2\ y^3$ in the expansion of $(x + y)^5$.

Task card 22 The Binomial Theorem

Find the coefficient of x^2 in the expansion of $(x + 1)^6$.

Task card 23 The Binomial Theorem

Find the coefficient of x^2 in the expansion of $(x + 3)^4$.

Task card 24 The Binomial Theorem

Find the coefficient of $x^2\ y$ in the expansion of $(x + y)^3$.

The Binomial Theorem Task Cards

Recording sheet · Grade 12 · Answer each question. Give coefficients as whole numbers; terms like 80x^2.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

The Binomial Theorem Task Cards: Answer Key

Grade 12 · Easy

The answers online

1. 5	**2.** 12	**3.** 4
4. 32	**5.** 6	**6.** 15
7. 4	**8.** 4	**9.** 80
10. 27	**11.** 15	**12.** 8
13. 12	**14.** 6	**15.** 10
16. 1458x	**17.** 15	**18.** 6
19. $12x^5$	**20.** -6	**21.** 10
22. 15	**23.** 54	**24.** 3