Task card 1 The Binomial Theorem

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

Task card 2 The Binomial Theorem

Find the coefficient of x^4 in the expansion of $(2x - 3)^7$.

Task card 3 The Binomial Theorem

Find the 5th term of the expansion of $(x - 2)^6$, written in descending powers of x.

Task card 4 The Binomial Theorem

Find the coefficient of $x^3 y^4$ in the expansion of $(x + y)^7$.

Task card 5 The Binomial Theorem

Find the coefficient of x^2 in the expansion of $(2x + 1)^3$.

Task card 6 The Binomial Theorem

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

Task card 7 The Binomial Theorem

Find the 4th term of the expansion of $(x + 3)^7$, written in descending powers of x.

Task card 8 The Binomial Theorem

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

Task card 9 The Binomial Theorem

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

Task card 10 The Binomial Theorem

Find the 2nd term of the expansion of $(x + 1)^5$, written in descending powers of x.

Task card 11 The Binomial Theorem

Find the constant term in the expansion of $(x + \frac{1}{x})^4$.

Task card 12 The Binomial Theorem

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

Task card 13 The Binomial Theorem

Find the 4th term of the expansion of $(x + 2)^4$, written in descending powers of x.

Task card 14 The Binomial Theorem

Find the coefficient of x in the expansion of $(3x - 1)^5$.

Task card 15 The Binomial Theorem

Find the coefficient of x^3 in the expansion of $(2x - 2)^7$.

Task card 16 The Binomial Theorem

Find the 7th term of the expansion of $(x + 3)^7$, written in descending powers of x.

Task card 17 The Binomial Theorem

Find the coefficient of x in the expansion of $(2x - 3)^7$.

Task card 18 The Binomial Theorem

Find the 6th term of the expansion of $(x - 3)^7$, written in descending powers of x.

Task card 19 The Binomial Theorem

Find the constant term in the expansion of $(x - \frac{2}{x})^6$.

Task card 20 The Binomial Theorem

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

Task card 21 The Binomial Theorem

Find the constant term in the expansion of $(x + \frac{3}{x})^6$.

Task card 22 The Binomial Theorem

Find the 4th term of the expansion of $(x - 1)^6$, written in descending powers of x.

Task card 23 The Binomial Theorem

Find the 5th term of the expansion of $(x + 1)^7$, written in descending powers of x.

Task card 24 The Binomial Theorem

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

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 · Medium

The answers online

1. 90	**2.** -15120	**3.** $240x^2$
4. 35	**5.** 12	**6.** 10
7. $945x^4$	**8.** -6	**9.** 1080
10. $5x^4$	**11.** 6	**12.** 10
13. 32x	**14.** 15	**15.** 4480
16. 5103x	**17.** 10206	**18.** $-5103x^2$
19. -160	**20.** -54	**21.** 540
22. $-20x^3$	**23.** $35x^3$	**24.** 27