Task card 1 The Binomial Theorem

Find the coefficient of x^4 in the expansion of $(-2x + 1)^7$.

Task card 2 The Binomial Theorem

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

Task card 3 The Binomial Theorem

Find the 3rd term of the expansion of $(x + 2)^7$, written in descending powers of x.

Task card 4 The Binomial Theorem

Find the constant term in the expansion of $(x^2 + \frac{3}{x})^3$.

Task card 5 The Binomial Theorem

Find the 4th term of the expansion of $(x + 2)^5$, written in descending powers of x.

Task card 6 The Binomial Theorem

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

Task card 7 The Binomial Theorem

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

Task card 8 The Binomial Theorem

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

Task card 9 The Binomial Theorem

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

Task card 10 The Binomial Theorem

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

Task card 11 The Binomial Theorem

Find the constant term in the expansion of $(x^2 + \frac{1}{x})^6$.

Task card 12 The Binomial Theorem

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

Task card 13 The Binomial Theorem

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

Task card 14 The Binomial Theorem

Find the constant term in the expansion of $(x + \frac{3}{x})^4$.

Task card 15 The Binomial Theorem

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

Task card 16 The Binomial Theorem

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

Task card 17 The Binomial Theorem

Find the 3rd term of the expansion of $(x - 3)^4$, written in descending powers of x.

Task card 18 The Binomial Theorem

Find the constant term in the expansion of $(x^2 - \frac{2}{x})^3$.

Task card 19 The Binomial Theorem

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

Task card 20 The Binomial Theorem

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

Task card 21 The Binomial Theorem

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

Task card 22 The Binomial Theorem

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

Task card 23 The Binomial Theorem

Find the constant term in the expansion of $(x + \frac{1}{x})^2$.

Task card 24 The Binomial Theorem

Find the 2nd term of the expansion of $(x + 3)^6$, written in descending powers of x.

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 · Hard

The answers online

1. 560	**2.** 540	**3.** $84x^5$
4. 27	**5.** $80x^2$	**6.** $-10x^4$
7. 192x	**8.** 1458x	**9.** 2430
10. 4x	**11.** 15	**12.** 6
13. 1344	**14.** 54	**15.** -320
16. -4	**17.** $54x^2$	**18.** 12
19. -54	**20.** 24	**21.** 80x
22. 12	**23.** 2	**24.** $18x^5$