Task card 1 Factoring Sums & Differences of Cu...

Factor: $125x^3 - 64$

Task card 2 Factoring Sums & Differences of Cu...

Factor: $5x^3 + 625$

Task card 3 Factoring Sums & Differences of Cu...

Factor: $64x^3 + y^3$

Task card 4 Factoring Sums & Differences of Cu...

Factor: $27x^3 - 1$

Task card 5 Factoring Sums & Differences of Cu...

Factor: $64x^3 + 27y^3$

Task card 6 Factoring Sums & Differences of Cu...

Factor: $-2x^3 + 250$

Task card 7 Factoring Sums & Differences of Cu...

Factor: $64x^3 + 27$

Task card 8 Factoring Sums & Differences of Cu...

Factor: $4x^3 + 256$

Task card 9 Factoring Sums & Differences of Cu...

Factor: $64x^3 - 1$

Task card 10 Factoring Sums & Differences of Cu...

Factor: $3x^3 + 375$

Task card 11 Factoring Sums & Differences of Cu...

Factor: $27x^3 - 64y^3$

Task card 12 Factoring Sums & Differences of Cu...

Factor: $8x^3 - 27$

Task card 13 Factoring Sums & Differences of Cu...

Factor: $8x^3 - y^3$

Task card 14 Factoring Sums & Differences of Cu...

Factor: $4x^3 - 256$

Task card 15 Factoring Sums & Differences of Cu...

Factor: $8x^3 - 1$

Task card 16 Factoring Sums & Differences of Cu...

Factor: $4x^3 + 4$

Task card 17 Factoring Sums & Differences of Cu...

Factor: $8x^3 + 1$

Task card 18 Factoring Sums & Differences of Cu...

Factor: $3x^3 + 24$

Task card 19 Factoring Sums & Differences of Cu...

Factor: $x^3 + 64y^3$

Task card 20 Factoring Sums & Differences of Cu...

Factor: $x^3 + 27y^3$

Task card 21 Factoring Sums & Differences of Cu...

Factor: $2x^3 + 432$

Task card 22 Factoring Sums & Differences of Cu...

Factor: $125x^3 + 216$

Task card 23 Factoring Sums & Differences of Cu...

Factor: $-2x^3 - 250$

Task card 24 Factoring Sums & Differences of Cu...

Factor: $5x^3 - 1080$

Factoring Sums & Differences of Cubes Task Cards

Recording sheet · Grade 11 · Factor completely. Write any common factor first, then the binomial, then the trinomial.

Scan to check your answers

Name: _____ Date: _____

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

Factoring Sums & Differences of Cubes Task Cards: Answer Key

Grade 11 · Hard

The answers online

1. $(5x - 4)(25x^2 + 20x + 16)$	**2.** $5(x + 5)(x^2 - 5x + 25)$	**3.** $(4x + y)(16x^2 - 4xy + y^2)$
4. $(3x - 1)(9x^2 + 3x + 1)$	**5.** $(4x + 3y)(16x^2 - 12xy + 9y^2)$	**6.** $-2(x - 5)(x^2 + 5x + 25)$
7. $(4x + 3)(16x^2 - 12x + 9)$	**8.** $4(x + 4)(x^2 - 4x + 16)$	**9.** $(4x - 1)(16x^2 + 4x + 1)$
10. $3(x + 5)(x^2 - 5x + 25)$	**11.** $(3x - 4y)(9x^2 + 12xy + 16y^2)$	**12.** $(2x - 3)(4x^2 + 6x + 9)$
13. $(2x - y)(4x^2 + 2xy + y^2)$	**14.** $4(x - 4)(x^2 + 4x + 16)$	**15.** $(2x - 1)(4x^2 + 2x + 1)$
16. $4(x + 1)(x^2 - x + 1)$	**17.** $(2x + 1)(4x^2 - 2x + 1)$	**18.** $3(x + 2)(x^2 - 2x + 4)$
19. $(x + 4y)(x^2 - 4xy + 16y^2)$	**20.** $(x + 3y)(x^2 - 3xy + 9y^2)$	**21.** $2(x + 6)(x^2 - 6x + 36)$
22. $(5x + 6)(25x^2 - 30x + 36)$	**23.** $-2(x + 5)(x^2 - 5x + 25)$	**24.** $5(x - 6)(x^2 + 6x + 36)$