Task card 1 Factoring by Grouping

Factor: $9x^3 + 6x^2 + 6x + 4$

Task card 2 Factoring by Grouping

Factor: $x^3 + 6x^2 + 3x + 18$

Task card 3 Factoring by Grouping

Factor: $9x^3 + 3x^2 - 24x - 8$

Task card 4 Factoring by Grouping

Factor: $8x^3 - 14x^2 + 36x - 63$

Task card 5 Factoring by Grouping

Factor: $12x^3 - 9x^2 - 8x + 6$

Task card 6 Factoring by Grouping

Factor: $6x^3 - 27x^2 + 8x - 36$

Task card 7 Factoring by Grouping

Factor: $4x^3 - 2x^2 + 6x - 3$

Task card 8 Factoring by Grouping

Factor: $4x^3 - 7x^2 - 12x + 21$

Task card 9 Factoring by Grouping

Factor: $2x^3 - 16x^2 + 9x - 72$

Task card 10 Factoring by Grouping

Factor: $2x^3 - 6x^2 - 3x + 9$

Task card 11 Factoring by Grouping

Factor: $x^3 - 3x^2 + 7x - 21$

Task card 12 Factoring by Grouping

Factor: $2x^3 + 9x^2 - 14x - 63$

Task card 13 Factoring by Grouping

Factor: $9x^3 + 21x^2 + 12x + 28$

Task card 14 Factoring by Grouping

Factor: $2x^3 - 12x^2 + 5x - 30$

Task card 15 Factoring by Grouping

Factor: $12x^3 - 21x^2 - 16x + 28$

Task card 16 Factoring by Grouping

Factor: $3x^3 + x^2 + 24x + 8$

Task card 17 Factoring by Grouping

Factor: $4x^3 + 2x^2 - 2x - 1$

Task card 18 Factoring by Grouping

Factor: $3x^3 - 7x^2 + 12x - 28$

Task card 19 Factoring by Grouping

Factor: $6x^3 - 15x^2 - 8x + 20$

Task card 20 Factoring by Grouping

Factor: $2x^3 + 7x^2 - 14x - 49$

Task card 21 Factoring by Grouping

Factor: $8x^3 + 18x^2 + 12x + 27$

Task card 22 Factoring by Grouping

Factor: $4x^3 - 3x^2 - 32x + 24$

Task card 23 Factoring by Grouping

Factor: $6x^3 + 9x^2 + 16x + 24$

Task card 24 Factoring by Grouping

Factor: $3x^3 - 6x^2 + 8x - 16$

Factoring by Grouping Task Cards

Recording sheet · Grade 9 · Factor completely. Write the answer as a product of two binomials, like (x^2 + 3)(x - 5).

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

Factoring by Grouping Task Cards: Answer Key

Grade 9 · Medium

The answers online

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