Task card 1 Factoring by Grouping

Factor: $8x^3 + 10x^2 - 28x - 35$

Task card 2 Factoring by Grouping

Factor: $6x^3 - 21x^2 + 2x - 7$

Task card 3 Factoring by Grouping

Factor: $12x^3 - 9x^2 + 20x - 15$

Task card 4 Factoring by Grouping

Factor: $3x^3 - 7x^2 + 18x - 42$

Task card 5 Factoring by Grouping

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

Task card 6 Factoring by Grouping

Factor: $6x^3 + 8x^2 - 3x - 4$

Task card 7 Factoring by Grouping

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

Task card 8 Factoring by Grouping

Factor: $9x^3 + 12x^2 + 15x + 20$

Task card 9 Factoring by Grouping

Factor: $6x^3 + 2x^2 - 3x - 1$

Task card 10 Factoring by Grouping

Factor: $2x^3 - 5x^2 - 14x + 35$

Task card 11 Factoring by Grouping

Factor: $8x^3 - 18x^2 + 4x - 9$

Task card 12 Factoring by Grouping

Factor: $12x^3 - 9x^2 - 20x + 15$

Task card 13 Factoring by Grouping

Factor: $2x^3 - 16x^2 - 5x + 40$

Task card 14 Factoring by Grouping

Factor: $12x^3 + 9x^2 + 4x + 3$

Task card 15 Factoring by Grouping

Factor: $9x^3 - 21x^2 - 6x + 14$

Task card 16 Factoring by Grouping

Factor: $4x^3 - 5x^2 - 24x + 30$

Task card 17 Factoring by Grouping

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

Task card 18 Factoring by Grouping

Factor: $x^3 - 4x^2 - 5x + 20$

Task card 19 Factoring by Grouping

Factor: $6x^3 - 2x^2 - 21x + 7$

Task card 20 Factoring by Grouping

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

Task card 21 Factoring by Grouping

Factor: $2x^3 + 10x^2 + x + 5$

Task card 22 Factoring by Grouping

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

Task card 23 Factoring by Grouping

Factor: $4x^3 - 10x^2 + 10x - 25$

Task card 24 Factoring by Grouping

Factor: $8x^3 + 14x^2 - 20x - 35$

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).

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 by Grouping Task Cards: Answer Key

Grade 9 · Hard

The answers online

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