

Name:

Date:

FACTOR BY GROUPING Worksheet - Problems

No. Problem

Answer Key

1. $3xa + 3xb + ya + yb$
2. $5x + 5y + x^2 + xy$
3. $ax + ay - bx - by$
4. $6ax - 8bx - 3ay + 4by$
5. $3ax + 12a + 2bx + 8b$
6. $a^2b^2 + b^2 + 8a^2 + 8$
7. $6x^2 + 3x + 4x + 2$
8. $3ax - 2a + 15x - 10$
9. $4x^3 + 3x^2y + 4xy^2 + 3y^3$
10. $3xy^2 - 6y^2 + 4x - 8$
11. $15 - 5y^4 - 3x^3 + x^3y^4$
12. $16w^4 - 40w^3 - 12w^2 + 30w$
13. $4abx - 4b^2x - 4ab + 4b^2$

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FACTOR BY GROUPING Worksheet - Answers

No.	Problem	Answer Key
1.	$3xa + 3xb + ya + yb$	$(3x + y)(a + b)$
2.	$5x + 5y + x^2 + xy$	$(x + y)(5 + x)$
3.	$ax + ay - bx - by$	$(x + y)(a - b)$
4.	$6ax - 8bx - 3ay + 4by$	$(2x - y)(3a - 4b)$
5.	$3ax + 12a + 2bx + 8b$	$(x + 4)(3a + 2b)$
6.	$a^2b^2 + b^2 + 8a^2 + 8$	$(a^2 + 1)(b^2 + 8)$
7.	$6x^2 + 3x + 4x + 2$	$(2x + 1)(3x + 2)$
8.	$3ax - 2a + 15x - 10$	$(3x - 2)(a + 5)$
9.	$4x^3 + 3x^2y + 4xy^2 + 3y^3$	$(4x + 3y)(x^2 + y^2)$
10.	$3xy^2 - 6y^2 + 4x - 8$	$(x - 2)(3y^2 + 4)$
11.	$15 - 5y^4 - 3x^3 + x^3y^4$	$(3 - y^4)(5 - x^3)$
12.	$16w^4 - 40w^3 - 12w^2 + 30w$	$2w[(2w - 5)(4w^2 - 3)]$
13.	$4abx - 4b^2x - 4ab + 4b^2$	$4b[(a - b)(x - 1)]$