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Factoring trinomials worksheet 6th grade worksheet

Crowson **FACTORIZING WORKSHEET** Name: _____

GCF	GROUPING
1. $3a + 6$	1. _____
2. $4x - 20$	2. _____
3. $2y^3 + 8xy$	3. _____
4. $5x + 10y - 15$	4. _____
5. $42m - 7$	5. _____
6. $18xy^2 + 6x^3 - 12x^2$	6. _____
7. $7a + 21p + 14$	7. _____
8. $40x^5y^6 - 16x^3y^3$	8. _____
9. $x(y+3) + 5(y+3)$	9. _____
10. $12x^3 + 16x^2 - 8x$	10. _____
11. $2y^2 - 10y + 20$	11. _____
12. $24x - 16$	12. _____
13. $20xyz + 12x^2z - 40yz$	13. _____
14. $a^2 + 3a^4 - 6a^3 + 9a^2$	14. _____
15. $y^7 - y^2$	15. _____
16. $6t^2 + 24$	16. _____
17. $-5x^3 + 10x^2$	17. _____
18. $-9a^2b + 18a^2b^2 - 3ab$	18. _____
19. $25x^2z + 15x^2z + 5x^2z$	19. _____
20. $3y^2 + 5x$	20. _____

Name: _____ Class: _____ Date: _____

Algebra I
Practice 9-4B: Factoring Out a GCF

Factor each polynomial.

- | | | |
|--------------------------|---------------------------|-------------------------|
| 1. $8a + 16$ | 2. $12a^2 - 8a$ | 3. $14d^2 - 7$ |
| 4. $5h^3 - 8h$ | 5. $7z^2 - 15z^2 - 9z^2$ | 6. $7y^2 - 4y^2 - 9y$ |
| 7. $a^3 - 5a^2$ | 8. $8a^2 - 12a^2 + 4a$ | 9. $7a^3 + 21a^2$ |
| 10. $6a^2 - 12a^2 + 14a$ | 11. $5a^2 + 12a^2$ | 12. $9a^2 - 6a^2 + 9a$ |
| 13. $2a^3 + 6a^2 - 4a$ | 14. $12a^3 - 30a^2$ | 15. $2a^2 + 8a - 14$ |
| 16. $4a^2 + 12a^2 + 18a$ | 17. $15m^2 - 8m^2 + 13m$ | 18. $4a^2 - 20a^2 - 8a$ |
| 19. $18a^2 - 3a^2 + 7a$ | 20. $5y^2 + 9y^2 - 27y^2$ | 21. $6a^2 - 3a$ |

Factor each trinomial. If a trinomial cannot be factored, write *prime*.

- | | |
|-----------------------|----------------------|
| 1. $x^2 + 5x + 4$ | 4. $x^2 + 6x + 5$ |
| 5. $x^2 - 9x + 18$ | 6. $x^2 - 12x + 3$ |
| 7. $y^2 - 2y - 3$ | 8. $t^2 + 2t - 3$ |
| 9. $r^2 - 5r - 6$ | 10. $a^2 + 3a - 28$ |
| 11. $w^2 - 19w - 36$ | 12. $k^2 - 10k + 24$ |
| 13. $x^2 - 9x + 20$ | 14. $x^2 + 9x - 21$ |
| 15. $q^2 - 8q + 15$ | 16. $x^2 + 14x - 32$ |
| 17. $t^2 - 13t - 48$ | 18. $x^2 + 12x + 32$ |
| 19. $r^2 - 21r - 100$ | 20. $y^2 + 10y - 75$ |

Name : _____ Score : _____
Teacher : _____ Date : _____

Factoring Quadratics

Factor each completely. If non-factorable, write "Non-factorable".

- | | |
|-------------------|--------------------|
| 1) $(k^2 - 6k)$ | 6) $d^2 + 3d - 10$ |
| 2) $m^2 - 6m + 7$ | 7) $(m^2 - 3m)$ |
| 3) $c^2 - c + 7$ | 8) $(s^2 - 4)$ |
| 4) $(y^2 - 47)$ | 9) $(s^2 - 4)$ |
| 5) $(r^2 + 2p)$ | 10) $(s^2 - 9)$ |

