**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Factoring Test Form A**

**Write the letter for the correct answer in the blank at the left of each problem.**

|  |  |
| --- | --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_ | 15a2b – 20a3   1. 5a2(3b + 4a) b. 5a2(3b – 20a3)   c. 5ab(3a – 4a2) d. 5a2(3b – 4a) |
| 2. \_\_\_\_\_\_\_\_\_\_\_\_ | 5x2 – 15xy – 2xy2 + 6y3   1. (5x +2y2)(x + 3y) b. (5x – 2y2)(x – 3y)   c. (5x +2y2)(x - 3y) d. (5x – 2y2)(x + 3y) |
| 3. \_\_\_\_\_\_\_\_\_\_\_\_\_ | 3a2 + 11a + 10   1. (3a – 5)(a- 2) b. (3a + 5)(a+2)   c. (3a + 5) (a +6) d. prime |
| 4. \_\_\_\_\_\_\_\_\_\_\_\_\_ | n2 – 14n - 48   1. (n – 6)(n +8) b. (n – 6)(n-8)   c. (n + 6)(n+8) d. prime |
| 5. \_\_\_\_\_\_\_\_\_\_\_\_ | 64v2 – 100   1. (4v -5)(16v +20) b. 4(16v2 – 100)   c. prime d. 4(4v – 5)(4v + 5) |
| 6. \_\_\_\_\_\_\_\_\_\_\_\_ | X3 + 6x2 – 7x   1. x(x -7)(x + 1) b.(x + 7)( x – 1)   c. x(x + 7)(x – 1) d. (x – 7)(x +1) |

**Factor Completely.**

|  |  |  |
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| 7. 3p3q2 +27pq2 | 8. 5x2 – 15x – 50 | 7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  | 8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 9. 16x2 - 169 | 10. b2 – 13b + 12 | 9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  | 10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 11. a2x – 2a2y – 5x + 10y | 12. 2d3 – 10d2 + 3d - 15 | 11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  | 12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 13. x3 + 7x2 – 18x | 14. 6x2 + 17x + 5 | 13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  | 14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 15. 4n2 + 20n + 25 | 16. x2- 5x + 6 | 15. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  | 16. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 17. 4x2 - 25 | 18. 50x2 + 8 | 17. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  | 18. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 19. 3x3 + 2x2 – 12x – 8 | 20. 2x2 – 2 x - 24 | 19. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  | 20. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |