

Name: _____ Date: _____ Per: _____

Factor Using the GCF

9.4 Practice 2

Factor each polynomial.

1. $7x + 49$

2. $8m - 6$

3. $5a^2 - 15$

4. $10q - 25q^2$

5. $8ax - 56a$

6. $81r + 48rs$

7. $t^2h + 3t$

8. $10m^3n^3 - 2mn^2 + 14mn$

9. $x + x^2y + x^3y^2$

10. $3p^2q^2 + 6pq + p$

11. $4a^2b^2 + 16ab + 12a$

12. $a^2b^2 + a$

Solve each equation.

13. $x(x - 8) = 0$

14. $b(b + 12) = 0$

15. $(m - 3)(m + 5) = 0$

16. $(a - 9)(2a + 1) = 0$

17. $x^2 - 5x = 0$

18. $y^2 + 3y = 0$

19. $3a^2 = 6a$

20. $2x^2 = 3x$

Factor Using the GCF Worksheet 532

Factor each polynomial.

1. $64 - 40ab$

2. $4d^2 + 16$

3. $6r^2s - 3rs^2$

4. $15cd + 30c^2d^2$

5. $32a^2 + 24b^2$

6. $36xy^2 - 48x^2y$

7. $30x^3y + 35x^2y^2$

8. $9c^3d^2 - 6cd^3$

9. $75b^2c^3 + 60bc^3$

10. $8p^2q^2 - 24pq^3 + 16pq$

11. $5x^3y^2 + 10x^2y + 25x$

12. $9ax^3 + 18bx^2 + 24cx$

Solve each equation.

13. $x(x - 32) = 0$

14. $4b(b + 4) = 0$

15. $(y - 3)(y + 2) = 0$

16. $(a + 6)(3a - 7) = 0$

17. $(2y + 5)(y - 4) = 0$

18. $(4y + 8)(3y - 4) = 0$

19. $2z^2 + 20z = 0$

20. $8p^2 - 4p = 0$

21. $9x^2 = 27x$

22. $18x^2 = 15x$

23. $14x^2 = -21x$

24. $8x^2 = -26x$