Name:_____   Period:_____ Date:_____

Combining Like Terms   Answers

Section I. Simplify by combining like terms

1. $6j - 2j$

    $4j$

2. $13k - 5 + 6k - 1$

    $19k - 6$

3. $-5x + 2y - 3x - 7y$

    $-8x - 5y$

4. $4m - 9m + 7 + 8m$

    $3m + 7$

5. $7h + 8g - 12h - 19g$

    $-5h - 11g$

6. $-8w + 2w + 12v$

    $-6w + 12v$

7. $3fg + 6fg$

    $9fg$

8. $3fg + 12f + 6fg - 5f$

    $9fg + 7f$

Section II. Solve for the variable if possible

9. $6j - 2j = 20$

    $j = 5$

10. $4u + 9u - 11 = -50$

    $u = -3$

11. $6r - 18 = 6r + 9$

    $not\ possible$

12. $2h + 15 - 7h = -110$

    $h = 25$

13. $3x + 26 = 5x - 2$

    $x = 14$

14. $8 - 7n - 19 = 2n + 16$

    $n = -3$

15. $-12 - 6x = 8 - 11x$

    $x = 4$

16. $7y - 43 = -13 - 3y$

    $y = 3$

17. $-2r = \frac{30 - 2r}{4}$

$r = -5$

18. $5(2f - 4) = 10f - 20$

infinite solutions

19. $\frac{9y - 4}{5} = \frac{7y + 2}{4}$

$y = 26$

20. $\frac{1}{3}(5m + 3) = \frac{1}{4}(6m + 5)$

$m = \frac{3}{2}$

21. $5(2h - 9) = 7h - 60$

$h = -5$

22. $3(2x - 3) = 6(x + 1) - 10$

not possible

23. $2(5j - 3) - j = 3(3j - 2)$

infinate solutions

24. $3(5w - 1) + 5(3w + 2) = 7$

$w = 0$