



Name: _____

Date: _____

Combining Like Terms – Challenge

$$1. \ 6a - 5a + 3a - 4a + 4a + 11 - 8$$

$$2. \ 7y - 5y + 2y - 5y + 6y + 7 - 2$$

$$3. \ 9x - 5y + 14 - 5x + 4z + 5y - 4 + 2x$$

$$4. \ 7x + 3y + 3z + 2w - 2x + 6y - 1z$$

$$5. \ 6x - 6y + 11 - 3x + 2z + 8y - 9 + 3x$$

$$6. \ 7x - 3y + 15 - 6x + 2z + 8y - 10 + 4x$$

$$7. \ - 6y + 7y - 6y + 5y$$

$$8. \ 8x - 3x + 3x - 5x + 3x + 4 - 7$$



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9. $6x + 5y + 2z + 3w - 3x + 6y - 3z$

10. $-4x + 6x - 5x + 3x$

11. $6x - 2y + 7 - 5x + 8z + 4y - 4 + 3x$

12. $7x - 2y + 12 - 7x + 8z + 5y - 8 + 3x$

13. $7x - 2x + 2x - 5x + x + 3 - 5$

14. $3x - 3x + x - x + 5x + 8 - 7$

15. $8x - 6y + 14 - 4x + 5z + 8y - 7 + 6x$

16. $8x - 2y + 5 - 7x + 3z + 6y - 6 + 5x$



Combining Like Terms – Challenge – Answer Key

1. $6a - 5a + 3a - 4a + 4a + 11 - 8$
 $4a + 3$

2. $7y - 5y + 2y - 5y + 6y + 7 - 2$
 $5y + 5$

3. $9x - 5y + 14 - 5x + 4z + 5y - 4 + 2x$
 $6x + 0y + 4z + 10$

4. $7x + 3y + 3z + 2w - 2x + 6y - 1z$
 $5x + 9y + 2z + 2w$

5. $6x - 6y + 11 - 3x + 2z + 8y - 9 + 3x$
 $6x + 2y + 2z + 2$

6. $7x - 3y + 15 - 6x + 2z + 8y - 10 + 4x$
 $5x + 5y + 2z + 5$

7. $-6y + 7y - 6y + 5y$
 $0y$

8. $8x - 3x + 3x - 5x + 3x + 4 - 7$
 $6x - 3$



Combining Like Terms – Challenge – Answer Key

9. $6x + 5y + 2z + 3w - 3x + 6y - 3z$
 $3x + 11y + -1z + 3w$

10. $-4x + 6x - 5x + 3x$
 $0x$

11. $6x - 2y + 7 - 5x + 8z + 4y - 4 + 3x$
 $4x + 2y + 8z + 3$

12. $7x - 2y + 12 - 7x + 8z + 5y - 8 + 3x$
 $3x + 3y + 8z + 4$

13. $7x - 2x + 2x - 5x + x + 3 - 5$
 $3x - 2$

14. $3x - 3x + x - x + 5x + 8 - 7$
 $5x + 1$

15. $8x - 6y + 14 - 4x + 5z + 8y - 7 + 6x$
 $10x + 2y + 5z + 7$

16. $8x - 2y + 5 - 7x + 3z + 6y - 6 + 5x$
 $6x + 4y + 3z + -1$