

Combining Like Terms

One way to simplify expressions is to “combine like terms”

You can only combine terms that have the same _____
and the same _____.

Which terms are like terms? (Not all terms will be used.)

<i>Circle all terms that can be combined with 3a.</i>	<i>Draw a square around all terms that can be combined with 4b.</i>	<i>Underline all terms that can be combined with a².</i>	<i>Draw an X through all terms that can be combined with 5.</i>
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1. 14a

2. 5ab

3. 3b

4. 3a²

5. 4b²

6. 17

7. 100

8. 14ab

9. 5a³

10. 4a

11. 16b

12. 73a²

Combining Like Terms

Usually when combining like terms you should organize them so that the variables are in _____ order, then the _____ should be in order from greatest to least.

$$3x + 10 + 3y + 2x - 2y + 13$$

$$a^2 + 5a - 3a + 6a^2 + 12$$

1. $6x + 3x =$

2. $15m + 5m =$

3. $3x + 7x =$

4. $6 + x + 4 =$

5. $2 + t + 10 =$

6. $5 + 2m + m =$

7. $7.6x + 4.8x =$

8. $8x^2 + 2x^2 + 7x =$

9. $\frac{6}{7}xy + \frac{2}{3}xy + 3x =$

10. $7a + 5c + 4c =$

11. $6a + 7b + 5a + 7b =$

12. $3x + 6y + 2y + 8x =$

13. $\frac{1}{5}a + 3b + 4c + \frac{3}{10}a =$

14. $6x^3 + 9x + 10x^3 + 4x^2 =$

15. $13m - 10m =$

16. $4xy - 2xy =$

17. $5.7x + 9x - 11.2x =$

18. $3a + 7b - 5b =$

19. $8s - 3x + 4k =$

20. $10x + 6y - 5x =$

21. $10\frac{1}{2}x - 6y + 5\frac{3}{4}x =$

22. $16a + 9 - 7a =$

23. $a + 2b - 8a =$