

Secrets Of The Algebra Club

1. When we bump, we multiply.
 - i. $3xy$ means 3 times x times y
 - ii. $3(rs)$ means 3 times r times s
2. We don't show a 1 with a variable
 - i. x means $1x$
 - ii. x^2 means $1x^2$
3. We don't show a 1 as an exponent
 - i. x means x^1
4. A number in front of a variable is called a coefficient
 - i. $3x = 3$ is coefficient
 - ii. $17xy = 17$ is coefficient
5. In algebra we can put like animals together.
We classify animals based on the variable and exponent:
 - i. $7x^4 = x^4$ animal
 - ii. $23xy^3 = xy^3$ animal
6. We put same animals together as follows:
 - i. $7x^4 + 5x^3 + 3xy^4 + 2x^4 + 7xy^4 =$
 1. $7x^4 + 2x^4 = 9x^4$
 2. $3xy^4 + 7xy^4 = 10xy^4$