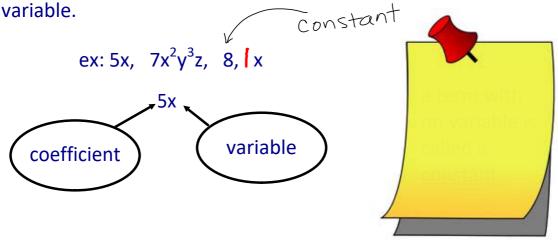
1.8 Communicate with Algebra



1. Vocabulary

a) <u>Term</u>: an expression formed by the **product** of a number and/or



b) <u>Polynomial</u>: an algebraic expression consisting of one or more terms. Terms are separated by additions or subtractions.

ex:
$$5x^2$$
 1 term: monomial
 $2x - 1$ 2 terms: binomial
 $4x^2 + 7x + 8$ 3 terms: trinomial
 $3x^2 + 2x^2$ 3 $3x^2 + 2x$ binomial

c) Degree of a term: sum of the exponents on the variables in a term.

L> Add up all the exponents (variables only)

ex: a)
$$3m^4n^5$$
 $^{4+5}$ degree = 9
b) xy^3z^2 degree = 6

d) <u>Degree of a polynomial:</u> degree of the highest degree term.

ex:
$$2a^5b^3 - a^{10}b^2 + 3a^7c^6$$
 degree = |3

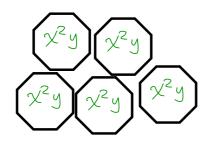
Ex. 1

Expression	# of terms	Name	Degree	Constant	Coefficient(s)
3x-1	2	binomial	\	9	3
x^2-2x+8	3	trinomial	2	8	1,-2
x 3		monomial		hone	3
$5x^2y+xy^4$	Ż	binomial	5	none	5,1



$$3\chi \rightarrow 3$$

$$1\chi \rightarrow \frac{1}{3}\chi$$



$$\frac{3}{\chi} \rightarrow \frac{3}{1} \rightarrow 3$$

Practice: page 134

C1, C3c, 1def, 3ace, 5ace, 6ace, 7, 8, 9d, 11,13,[18]

Note: a variable is just the letter/symbol - it should have exponent 1 (the book is wrong!)