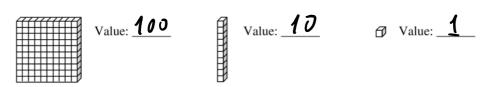
5.1 - Modelling Polynomials

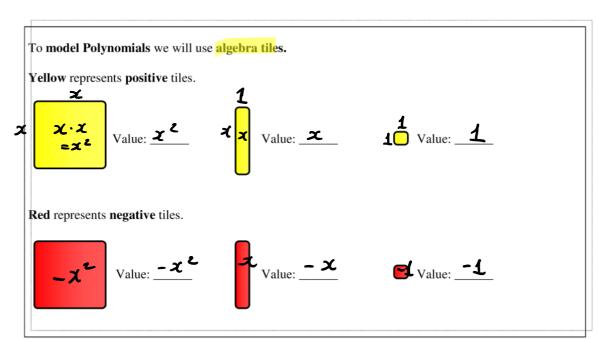
Focus: Learn vocabulary associated with polynomials and represent and identify polynomials using models

Recall: Last year when we added and subtracted integers, we used integer chips.

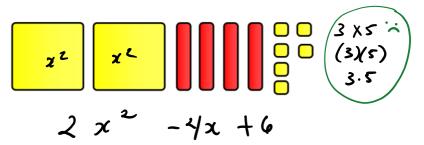


In Arithmetic we used 10 blocks to model whole numbers.





Ex. 1: The following tiles represent what expression?

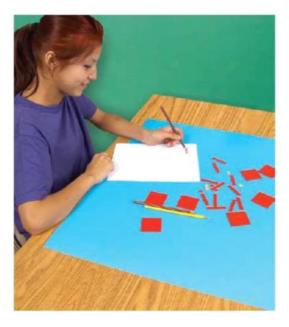


1

Do the 'Investigate'

Investigate





Use algebra tiles.

- ➤ Model each expression. Sketch the tiles. How do you know which tiles to use? How do you know how many of each tile to use?
 - $x^2 + x 3$ • $-2x^2 - 3$ **4 2 300** • $2x^2 + 3x$ **1 10 10 1** • $-2x^2 - 3x + 1$ **3 3 10 a**
- Write your own expression.
 Have your partner model it with tiles.
 Model your partner's expression with tiles.

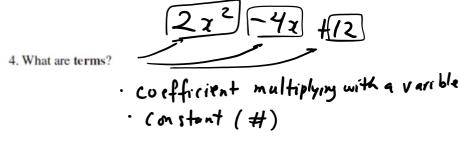
We must be able to identify vocabulary associated with Polynomials.

Let us examine the expression, $2x^2 - 4x + 12$.

2. What is a Coefficient?

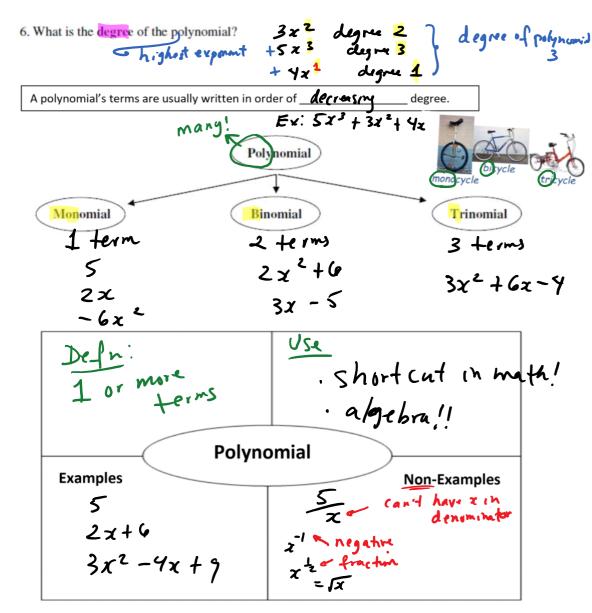
3. What is a Constant?

2



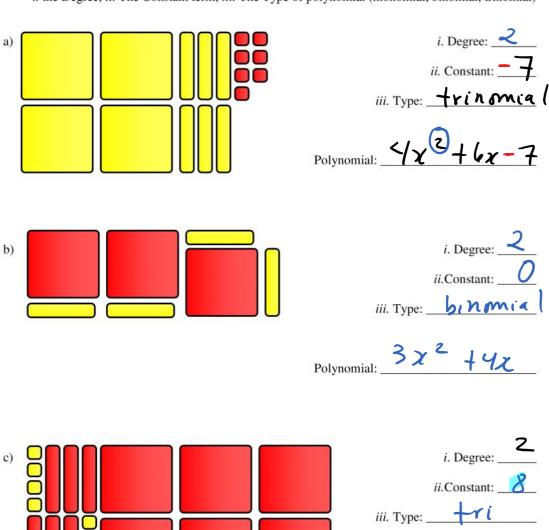
5. What is a Polynomial?

sum of 1 or more terms



Ms. Kamber

Ex. 2: State the polynomials modeled by the algebra tiles and also the following: *i.* the Degree, *ii*. The Constant term, *iii*. The Type of polynomial (monomial, binomial, trinomial)



4

Polynomial: $-6x^2 - 6x + 8$

Ex. 3: Model the following polynomials using algebra tiles. State the degree and classify the polynomial (monomial, binomial, trinomial).

a) 4x + 3

degree: 1

classification: 61 mga (

b) -5c

c) $5a-4a^2-3$ - $4a^2+5x-3$

ING B INGOO BOO

Assignment:

Sec 5.1, p. 214: 4, 5abc,

9abc (make a chart: polynomial, coefficients, variable, degree, constant), 11ace (sketch), 12, 13

15, 16, 18

Ms. Kamber