NAME

Module 2 Writing and Simplifying Algebraic Expressions
Lesson 1 Using the Language of Algebra

guided practice

Set 1

1. What is the coefficient of $\frac{x}{3}$? **$\frac{1}{3}$**

2. Which expressions are monomials? $\sqrt{a+b}$ $6r$ $\frac{5d}{8}$ $\frac{3x}{2y}$ $-z$
$6r$, $\frac{5d}{8}$, $-z$

Give an example of a monomial containing a: **possible answers given**

3. coefficient and 1 variable **$10x$**

4. number only **5**

5. coefficient and 2 variables **$6ab$**

Set 2

1. Is the expression $5 + x^3y - x^2 + \frac{1}{x^2}$ a polynomial? If so, is it a monomial, binomial, or trinomial? **Not a polynomial**

2. Is the expression $8a + 3bc + 4$ a polynomial? If so, is it a monomial, binomial, or trinomial? **Yes; Trinomial**

3. What is the degree of the monomial: $7x^5y$? **6**

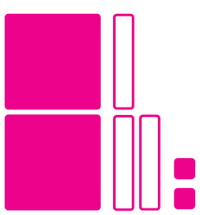
4. What is the degree of the polynomial: $x^2 - 16$? **2**

Manipulative Set

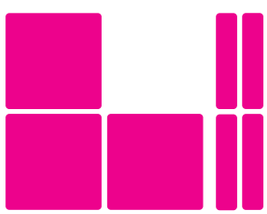
Model each polynomial using Algebra Tiles.

1. $3x + 1$

2. $-2x^2 + 3x - 2$



3. $-3x^2 - 4x$



4. $2x^2 + 5$