Mr. Rogove

Date:

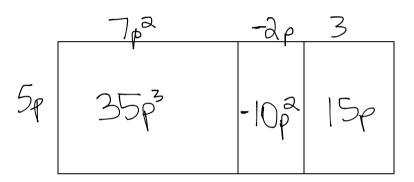
LEARNING OBJECTIVE: We will multiply polynomials by monomials. (Lesson 82)

CONCEPT DEVELOPMENT:

Multiplying polynomials and monomials requires us to apply the DISTRIBUTIVE PROPERTY.

 $(5p(7p^2-2p+3))$ $(5p.7p^2)-(5p.2p)+(5p.2)$

We can also use ARRAY MODELS to MULTIPLY.

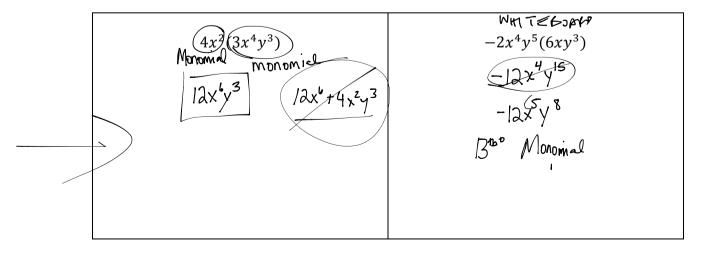


When you think **DISTRIBUTIVE PROPERTY**, think about **ARRAY MODELS!!**

GUIDED PRACTICE:

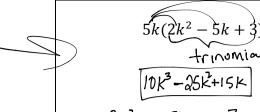
Steps for Multiplying Polynomials by Monomials

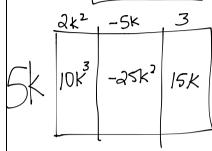
- 1. Distribute the monomial to each of the terms in the polynomial.
- 2. Simplify as needed.



Mr. Rogove

Date:			





$$8t(3s^3 + 4s^2t - 2t)$$

$$24s^3t + 32s^3t^2 - 16t^2$$

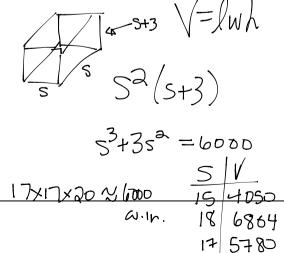
$$(4m^3n^2)(5m^2n - 3mn - 2)$$

 $20m^5n^3 - 12m^4n^3 - 8m^3n^2$

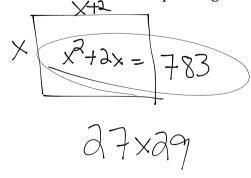
$$ARRAY MOPEL$$
 $D 2a^2(5a - 6ab^2 + 5b^2 + 1)$

10a-12a3b-10a2b+22

Zoe is making a planter box for her garden with a square base. She wants to height to be 3 more inches than that of the length of a side. If she wants the volume to be as close to 6000 cubic inches as possible, what are the dimensions of the box?



The sides of a rectangular painting are consecutive odd integers. Write an expression to represent this situation. If the painting is 783 square inches, what are the dimensions of the painting?



Name:	Math 7.2, Period			
Mr. Rogove	Date:			
Mr. Rogove	Date:			

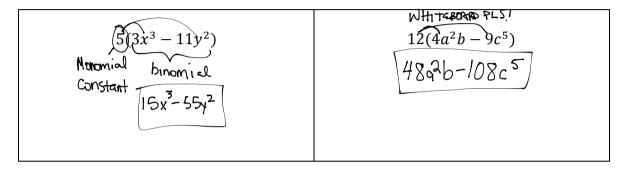
INDEPENDENT PRACTICE:

Personal Math Trainer explore?

14.3 Homework (Ind Practice Odds 10-27)

ACTIVATING PRIOR KNOWLEDGE:

We can use the distributive property:



CLOSURE:

Is the product of 2 polynomials ALWAYS a polynomial?

Notes:

This is Go Math Pilot, mapping to lesson 14-3. In ENY, this translates to lesson 9 of Alg 1, module 1.

Homework from Textbook Page 507-08 Questions 10-27.