## Warm-up:

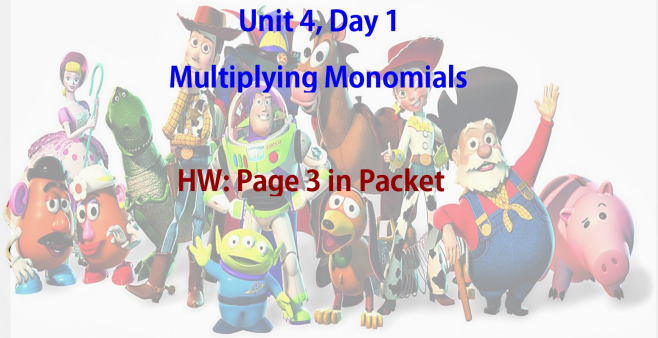
What Do You Know About Bases and Exponents

## Algebra 1

Unit 4, Day 1

Multiplying Monomials

HW: Page 3 in Packet



## Bases and Exponents

$64 = 2^6$

$128 = 2^7$

$2^5$

$2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$

$= 32$

$2^3 \cdot 2^4$

$(2 \cdot 2 \cdot 2) \cdot (2 \cdot 2 \cdot 2 \cdot 2)$

$2^7 = 128$

## Multiplying with Same Bases

To multiply exponents with the same bases, simply add the exponents.

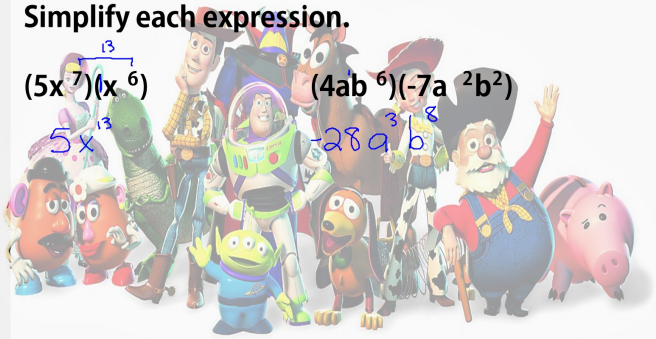
$a^7 \cdot a^3$

$a^{10}$

## Multiplying with Same Bases

**Simplify each expression.**

$(5x^{7})(x^{6})$ $(4ab^{6})(-7a^{2}b^{2})$



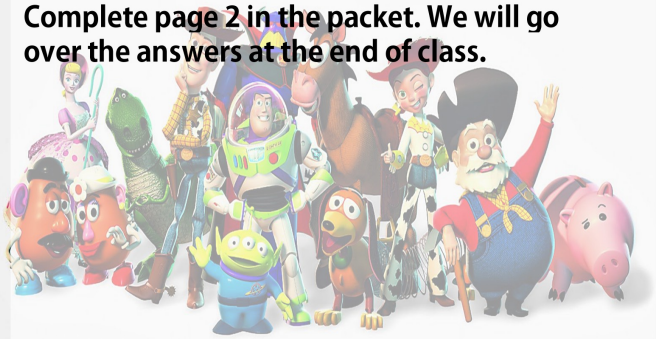
## YOU TRY!!

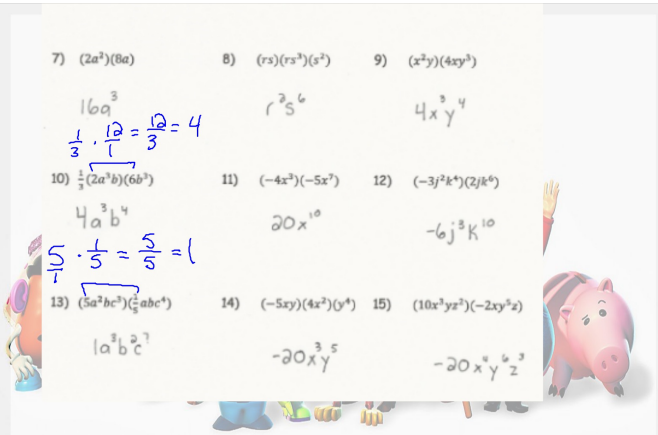
**Simplify each expression.**

$(r^{4})(-12r^{7})$ $(6cd^{5})(5c^{5}d^{2})$

## Classwork

**Complete page 2 in the packet. We will go over the answers at the end of class.**

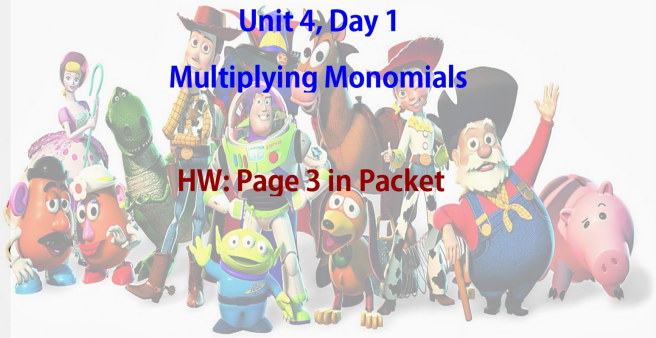




# Algebra 1

## Unit 4, Day 1

## Multiplying Monomials



**HW: Page 3 in Packet**