

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**BLM 7.GR.1**

## Practice: Get Ready

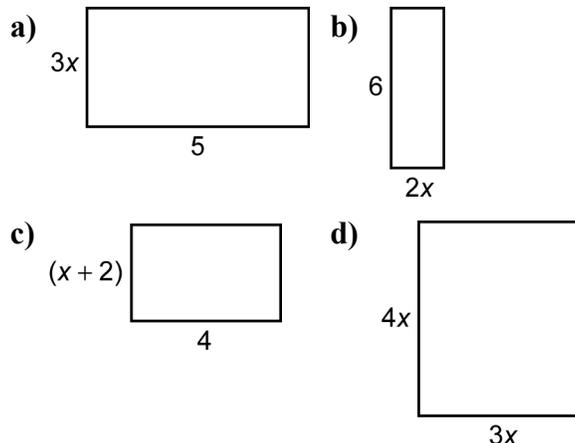
### Polynomials

- Identify the numerical coefficient in each term.  
a)  $-2x^2$     b)  $5m$     c)  $-3y^2$     d)  $9a^2$
- Classify each expression as a monomial, binomial, trinomial, or polynomial.  
a)  $1 - 2x - 4x^2$     b)  $7r^2 - 8r$   
c)  $2abc^2$     d)  $x - 4x^2$

### Algebraic Expressions

- Multiply or divide.  
a)  $2(-3a)$     b)  $-8x(-2x)$     c)  $-4(3x^2)$   
d)  $-6r^2 \div 3r$     e)  $(-4r^2 - 3r) \div (-r)$
- Simplify each expression.  
a)  $a - 2a^2 + 7a + 5a^2$   
b)  $1 + 5b + 4b^2 - 3b^2$   
c)  $c + 6 - 2c + 3c^2 - 6c^2$   
d)  $x - 4x + x^2 + 5x + 1$
- Expand and simplify.  
a)  $-5(x - 7)$     b)  $-2(9 - 2m + 3m^2)$   
c)  $3a(a - 3)$     d)  $-2y(6y - 4) + 3(2y^2 + 1)$
- Evaluate each expression when  $x = -1$   
a)  $-2(x^2 - 2x + 2)$   
b)  $3(x^2 + 5x + 1)$   
c)  $5x^2 - 2(2x^2 + 2x + 1)$   
d)  $(2x^2 + 3x) - x(7x^2 + 1)$

- Calculate the area of each rectangle.



### Number Operations

- Square each term.  
a)  $-8$     b)  $8x$     c)  $-6x$     d)  $10x$
- Evaluate.  
a)  $9^2 - 7^2$     b)  $3^2 + 2^2 + 1^2$   
c)  $(-2)^2 - 2^2$     d)  $-4^2 - (-3)^2$

### Measurement

- A wooden picture frame is in the shape of a square, and each side is 20 cm long. A smaller square is cut from inside, so there is a viewing area for the picture. The smaller square has side length 15 cm. What is the area of the picture frame with the square cut out of it?

