

Name: _____

Date: _____

BLM 7.GR.1

Practice: Get Ready

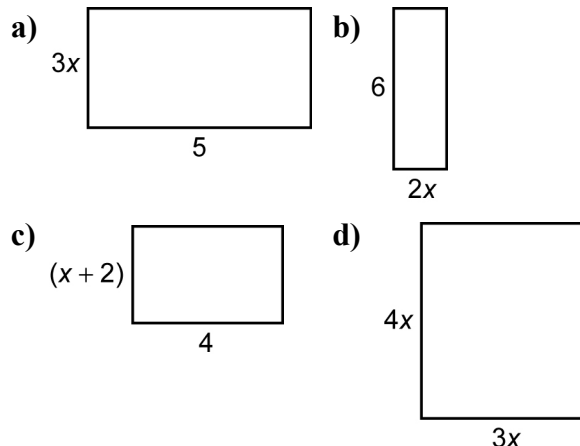
Polynomials

- 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?

