Bell Work:

- 1. What type is this linear function? $y-5=\frac{2}{5}(x+8)$
- 2. What is the slope of a line that goes through (11, -6) and (-5, 10)?
- 3. What is the slope of a line with an equation of 3x 5y = -20?
- 4. What equation for the linear parent function?

What is a monomial?

It is a number, a variable, or a combination of a number and 1 or more variables.

Examples:

1.
$$-2.3$$

5.
$$-3m^2n$$

6.
$$147u^3v^4$$

7.
$$4.9a^6b^4c^3$$

8.
$$-g^3h^7j^2k^2m^5np^9q^3$$

1.
$$(5a)(9b) = 45ab$$

- 1. Multiply the coefficients.
- 2. Multiply the variables. If they are different, put the variables in alphabetically order.

2.
$$(-3c)(-12d) = 36cd$$

- 1. Multiply the coefficients.
- 2. Multiply the variables. If they are different, put the variables in alphabetically order.

3.
$$(7e)(-4e) = -28e^2$$

- 1. Multiply the coefficients.
- 2. Multiply the variables. If they are different, put the variables in alphabetically order.

4.
$$(8f)(6f) = 48f^2$$

- 1. Multiply the coefficients.
- 2. Multiply the variables. If they are different, put the variables in alphabetically order.

$$(2)(2) = 2^2 = 4$$

$$(e)(e) = e^2$$

5.
$$(5g)(-4h)(3g) = -60g^2h$$

- 1. Multiply the coefficients.
- 2. Multiply the variables. If they are different, put the variables in alphabetically order.

6.
$$(4j)(-12k)(-k) = 48jk^2$$
 $(-k) = (-1k)$

- 1. Multiply the coefficients.
- 2. Multiply the variables. If they are different, put the variables in alphabetically order.

7.
$$(-7m)(-4n)(5m^2)(9n) = 1,260m^3n^2$$

- 1. Multiply the coefficients.
- 2. Multiply the variables. Add the exponents. If they are different, put the variables in alphabetically order.

8.
$$(6p)(-6q)(-3p)(4p^2) = 432p^3q^2$$

- 1. Multiply the coefficients.
- 2. Multiply the variables. Add the exponents. If they are different, put the variables in alphabetically order.

9.
$$(-10rt)(4t)(-7r^2)(-4rt^2)(3t) = -3{,}360r^4t^5$$

- 1. Multiply the coefficients.
- 2. Multiply the variables. Add the exponents. If they are different, put the variables in alphabetically order.

10.
$$(-2u^2)(9v)(-6uv^2)(-7v^2)(-4uv) = 3{,}024u^4v^6$$

- 1. Multiply the coefficients.
- 2. Multiply the variables. Add the exponents. If they are different, put the variables in alphabetically order.

Assignment:

Fluency Practice: Multiplying Monomials Worksheet