Name: _____ Period: _____ Date: _____

Equivalent Expressions Assignment

Math 6

Part A: Fill in the blanks with words or phrases that will make each statement true.

1. Expressions that may look different but will have the same result if calculated are called _____.
2. _____ are terms that have the same variables raised to the same power or exponent, can have different coefficients and can be combined.
3. _____ is the process of getting the factors of any given product.
4. The _____ the highest factor that is common in two or more given numbers.
5. _____ is a tool used to break down any given number into its prime factors.

Part B: Cross out the term that **DOES NOT** belong to each set.

1. p $3p$ $-4p$ $5q$ $12p$

2. $5a^2b^3$ $9a^2b^3$ $16a^2b^3$ $-5a^2b^3$ $-a^2b^2$

3. $7mnp$ $10mnp^2$ $21mnp$ $10mnp$ $-9mnp$

Name: _____ Period: _____ Date: _____

Equivalent Expressions Assignment

Math 6

Part C: Determine if the given expressions are equivalent given the value of the variable.

1. $7a - 5a + 3$ and $3 + 2a$, **for** $a = 2$

2. $3(7g + 5h)$ and $21g + 15h$, for $g = 2$ and $h = -1$

Part D: Combine like terms to generate equivalent expressions.

1. $24y + 8y$

2. $10 - 5g + 8 + 8g$

3. $10f + 4 - 7d - 3 + 8d - 9f$

4. $9xy + 12xz - 4yz + 5xz - 8xy$

Name: _____ Period: _____ Date: _____

Equivalent Expressions Assignment

Math 6

Part E: Write equivalent expressions in factored form using the greatest common factor and the distributive property.

1. $12z + 24y$

2. $abc + abd - abe$

3. $8gh - 8hk$

4. $14mn + 28mp + 7m$

Part F: Use the distributive property to write equivalent expressions in standard form.

1. $8(4a + 3b)$

2, $5x(3y - 7z)$

3. $7pq(1 + 2r)$

4. $5ab(c + d - e)$