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

**Math 7 Chapter 1 Quiz Review Notes**

**Vocabulary:**

**Exponent Expression Associative Cubed**

**Area Distributive Like Terms Volume**

**Equation Variables Squared Constant**

**Coefficients Base Perimeter Commutative Terms**

|  |  |
| --- | --- |
| **Word** | **Definition** |
|  | Shorthand for writing repeated multiplication.  It tells how many times the base is multiplied. |
|  | The number that is multiplied by itself. |
|  | A number sentence using operations, numbers & variables.  They do not have an equal sign. |
|  | 2 expressions separated by an equal sign. |
|  | When adding or multiplying you can change their order.  Does not work with subtraction or division. |
|  | When adding or multiplying it does not matter if you start with the first or last numbers. |
|  | Letters used to represent numbers. |
|  | Exponent of 2  Used when solving for area. |
|  | Exponent of 3  Used when solving for volume. |
|  | S + S = P  Add all the sides |
|  | L x W = A² |
|  | L x W x H = V³ |

Vocabulary continued:

|  |  |
| --- | --- |
|  | Numbers and or variables that are multiplied together.  Can also be a single number or a single letter. |
|  | Numbers in front of a variable. |
|  | Terms that have the same variable. |
|  | A term that is a single number without a variable. |
|  | You can distribute multiplication over addition.  a(b + c) = ab + ac |

**Order of Operations: Solve these expressions using order of operations rules.**

1). 7 – 24 ÷ 8 x 4 + 6 2). (17 – 6 ÷ 2) + 4 x 3

3). (1 ³ x 2² + 3³) – 2 ³ ÷ 4 4). (22 ÷ 2 – 2 x 5)² + (4 – 6 ÷6)²

**Solving Expressions: Solve or simplify these expressions**

1). 2a + 4b +3b -5a +2b 2). 4(2x+1) - 3x

3). n · n · n · n · s · s · s 4). 4rs -2s - 3(rs +1) - 2s

**Exponents: Rewrite these expressions as exponents.**

1). 2 x 2 x 2 x 2 x 2 x 2 x 2 x 2 2). 8 x 8 x 8 x 8 + 4 x 4 x 4

3). 12 · 12 · 12 · 12 · 12 - 8 · 8 · 8 4). 9 · 9 · 9 · 9 + 7 · 7

**Distributive property: Rewrite these expressions using the distributive property to create an equation.**

1). 5 · (60 + 32) =

2). 4(x - 2 + y) =

3). (9m + 10) ⋅ 2

4). −8(1 − 5x)

**BONUS: Write the formulas for perimeter, area, and volume.**

**1).**

**2).**

**3).**