

## "Who has <u>a sequence made by *multiplying*</u> by some value each time?

Example: 2, 4, 8, 16, 32, 64, 128... \*Each number is 2 times the number before it

"I have **GEOMETRIC SEQUENCE."** 

"Who has adding zero to a number leaves it unchanged?"

Example: a+0=a or 0+a=a

#### "I have ADDITIVE IDENTITY PROPERTY."

"Who has what you add to a number to get to zero?

Example: -5 + 5 = 0.5 + (-5) = 0



"Who has <u>the property which allows you</u> to add or multiply regardless of where parentheses are placed in an equation?"

> Example: (6+3)+4=6+(3+4)

#### "I have ASSOCIATIVE PROPERTY."

"Who has <u>the property which leaves a</u> <u>number unchanged whenever it is</u> <u>multiplied by 1?"</u> Example:

 $a \times 1 = 1$ 

### "I have **MULTIPLICATIVE IDENTITY PROPERTY."**

"Who has <u>the product of zero and any</u> <u>number is always zero</u>?" Example: 6 x 0 = 0

Created by Jason Galvar

# "I have MULTIPLICATIVE PROPERTY OF ZERO."

"Who has <u>the law which states that</u> <u>multiplying a number by a group of</u> <u>numbers added together is the same as</u> <u>doing each multiplication separately</u>?"

> Example:  $3 \cdot (2 + 4) = 3 \cdot 2 + 3 \cdot 4$

#### "I have **DISTRIBUTIVE PROPERTY."**

"Who has <u>a way to represent that two</u> <u>things are the same, using mathematical</u> <u>symbols, such as an equal sign (=)?"</u>

Example: 7+2 = 10-1

#### "I have EQUATION."

"Who has <u>numbers, symbols, and</u> <u>operators (such as + and ·) grouped</u> <u>together that show the value of</u> <u>something?</u>

Example:  $X = 2 \cdot 3$ 



"I have	CONSTANT."
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"Who has **something which says that two** 

## values are not equal?"

Examples: a ≠ b says that a is **not equal** to b a < b says that a is **less than** b a > b says that a is **greater than** b

"I have INEQUALITY."

"Who has <u>terms whose variables (and their</u> <u>exponents, such as the 2 in x<sup>2</sup>) are the</u> <u>same.</u>

> Examples: 7x + 2x $4x^2 + 7x^2$



"Who has <u>a special relationship between</u> values where each *input* value gives back <u>exactly one *output* value?"</u> (It is often written as "f(x)" where x is the value you give it)

> Example: f(x) = x/2\* f(2) = 1, \* f(16) = 8, \* f(-10) = -5

> > "I have FUNCTIONS."

"Who has <u>a systematic listing of results</u> <u>already worked out</u>?"

"I have TABLE OF VALUES."

"Who has <u>all the values that go into a</u> function?"

Example:  $f(x) = x^{2}$  $x = \{1, 2, 3, ...\}$ 



#### "I have **INDEPENDENT VARIABLE."**

"Who has <u>equations that involve many</u> <u>steps to find the solution?</u>"

Example: 5x - 6 = 9Step 1: Add 6 to both sides: 5x = 15Step 2: Divide both sides by 5: x = 3

#### "I have MULTISTEP EQUATIONS."

"Who has <u>a sequence made by adding</u> <u>some value each time?"</u>

Example: 1, 4, 7, 10, 13, 16, 19, 22, 25... (each number is 3 larger than the number before it)