## Variables, Expressions, Equations Pre Algebra Word Game: Taboo

## Directions:

Use clues to get your partner or teammates to guess the word at the top of the slide WITHOUT using any of the red words below.

When your team guesses correctly, sit down.
If your clue-giver uses a 'taboo' clue, then your team sits down.

## Operation

$$
\begin{gathered}
\text { Plus } \\
\text { Subtract } \\
\text { Multiply } \\
\text { Divide } \\
\text { Calculate } \\
2+3=5 \\
8-4=4 \\
6 \times 2=12 \\
9 / 3=3
\end{gathered}
$$

## Comparison

Bigger than
Smaller than
Greater
Less than
Compare
$5>3$
$4<7$
$6 \geq 6$
$9 \leq 10$
$10=5+5$

## Relation

Connection
Association
Link
Correlation
Correspondence

$$
3=3
$$

$$
5 \neq 7
$$

$$
\sim 4
$$

3.14~22/7

## Integer

Whole number
Natural number
Fraction
Decimal
Rational number
$-2,-1,0,1,2$

Z

# Rational Number 

Fraction<br>Decimal<br>Ratio<br>Quotient<br>Division<br>$$
1 / 2,-3 / 4,0.25,7 / 3
$$

## Additive Inverse

## Opposite

Negation
Reversed
Add to zero
Complement

$$
-p+p=0
$$

## Additive Identity

Zero<br>Neutral<br>Nothing<br>Empty<br>Null<br>$9=9+0$

# Multiplicative Identity 

One<br>Identity element<br>Unit<br>Neutral<br>Unchanged<br>$1 \cdot m=m$

## Multiplicative Inverse

Reciprocal<br>Invert<br>Reverse<br>Divide by<br>Flip<br>$(1 / x) x=1$

## Signed Numbers

## Positive

Negative
Plus
Minus
Non-negative

# Fraction 

## Part

Division
Numerator
Denominator
Quotient

$$
a / b
$$

## Decimal

Point
FractionalDecimal point
Non-integer
Fraction
0.3...
1.75-3.112.3\%

## Place Value

Position<br>Digits<br>Decimal place<br>Order<br>Location<br>$10^{n}$

## Value

Worth
Number
Amount
Quantity
Valuation
12
-8
$\pi$

## Place

Positionones
tens
tenths
spot

$$
1 \mathrm{~s} \dagger
$$

2nd
Order matters
Decimal point

## Zero Pair

Cancel
Nullify
Eliminate
Offset
Neutralize
$2+(-2)$
$-0.5+0.5$

# Numerical Expression 

Mathematical phrase
Number sentence
Arithmetic expression
Numeric formula
Algebraic statement

$$
-2+3
$$

## Simplify

Reduce

Streamline
Condense
Make easier
Clarify

$$
\begin{gathered}
2 x+1+x-5 \\
3 x-4
\end{gathered}
$$

## Evaluate

Calculate
Solve
Determine
Find the value of
Assess
$2 x+1$ when $x=4$
2(4) +1 9

## Equivalent

Equal

Same
Identical
Comparable
Alike
$4 \equiv 2^{2}$
$4 x \equiv-x+5 x$

## Equal to

Same as
Identical to
Equivalent to
Matches
Equals
$=$

## Algebraic Expressions

Algebraic phrases
Mathematical statements
Algebraic equations
Symbolic expressions
Variable expressions

$$
\begin{aligned}
& 2 x+3 \\
& a^{2}+b
\end{aligned}
$$

## Distributive Property

Distribute<br>Share<br>Spread<br>Disperse<br>Allocate<br>$$
a(b+c)=a b+a c
$$<br>$$
2(3+4)=2 \cdot 3+2 \cdot 4
$$

## Equation

Mathematical equation
Algebraic equation
Equal sign
Mathematical statement
Equation symbol

$$
a x+b=c
$$

$$
2 x+3=7
$$

## Unknown Number

Variable<br>Mystery number<br>Unspecified<br>X (as a placeholder)<br>Undefined<br>$2+x=10$

# Generalized Number 

Variable

For all numbers

Symbolic
Non-specific
Arbitrary

$$
y=3 x+5
$$

$2 x^{3}$

## Solution

Answer

Result

Resolution

Outcome

## Explanation

$$
x=-2,2
$$

## Solution Set

## Set of solutions

Answers
Result set
Solution list
Outcome collection

$$
\{x \mid x=3\}
$$

## Empty Solution Set

No solutions
Null solution
Void set
No answers
Blank set
" $\{$ \}"
"8"

## Addition Property of Equality

Adding

Sum

Equal addition
Balancing
Equalizing

$$
a=b \Rightarrow a+c=b+c
$$

$$
2 x=3 \Rightarrow 2 x+5=3+5
$$

## Subtraction Property of Equality

$$
\begin{gathered}
\text { Subtracting } \\
\text { Difference } \\
\text { Equal subtraction } \\
\text { Removing } \\
\text { Minus } \\
\begin{array}{cl}
a=b \Rightarrow a-c=b-c \\
2 x=3 \Rightarrow 2 x-5=3-5
\end{array}
\end{gathered}
$$

# Multiplication Property of Equality 

Multiplying
Product
Equal multiplication
Scaling
Times

$$
\begin{gathered}
a=b \Rightarrow a \cdot c=b \cdot c \\
4=7 x \Rightarrow 4 \cdot 2=7 x \cdot 2
\end{gathered}
$$

## Division Property of Equality

$$
\begin{gathered}
\text { Dividing } \\
\text { Quotient } \\
\text { Equal division } \\
\text { Splitting } \\
\text { Over } \\
a=b \Rightarrow a \div c=b \div c \\
10=x \Rightarrow 10 \div(1 / 2)=x \div(1 / 2)
\end{gathered}
$$


$5 x$

## Algebra Tiles

Green
Red
Yellow
Visual aids
Squares
Rectangles

## Function

Mathematical function
Relation
Mathematics of change
Sets of objects
Correspondence

# "For all numbers" 

Variable<br>Universal<br>All<br>Every<br>Each<br>For any

# Coordinate points 

Ordered pairs
Cartesian coordinates
Points on a grid
Location pairs
( $x, y$ ) pairs

## Rate of change

Slope

Gradient
Steepness
Rate of variation
Derivative

## $x$-axis

Horizontal axis
Abscissa
Width axis
Side-to-side axis
Independent axis

# $y$-axis 

Vertical axis
Ordinate
Height axis
Up-and-down axis
Dependent axis

## origin

Starting point
Center
Point of reference
Intersection
Initial position

## Coordinate plane

Cartesian plane

## Graphing plane

Grid
Graph paper
Two-dimensional space

## Maximum



Apex
Change in direction

## Minimum

Lowest<br>Bottom<br>Minimum value<br>Nadir<br>Minimum point<br>Valley<br>Trench



## y-intercept

Vertical intercept
Initial value
Starting point on the

$$
y \text {-axis }
$$

$y$-coordinate at $x=0$
Intersection with the

$$
y \text {-axis }
$$

## x-intercept

Horizontal intercept
Root
Zero point on the x-axis
x -coordinate at $\mathrm{y}=0$
Intersection with the
x-axis

# Increasing 

Rising<br>Growing<br>Ascending<br>Getting larger<br>Upward trend

# Decreasing 

Falling<br>Declining<br>Descending<br>Getting smaller<br>Downward trend

# Increasing at and increasing rate 

Accelerating

Speeding up
Rapidly increasing
Faster growth
Steeper slope

## Increasing at a decreasing rate

Slowing down
Gradually increasing
Less rapidly
Shallower slope
Diminishing rate of
increase

## Constant

Unchanging
Steady
Consistent
Same rate
Stable

## Undefined

No definition
Not determined
Ambiguous
No value
Not specified

