

Chapter Review



Number Operations

• operators in math $+$, $-$, \times , \div

$x + y$ "the sum of x and y "

$x - y$ "the difference of x and y "

xy "the product of x and y "

$x \div y$ or $\frac{x}{y}$ "the quotient of x and y "



Variables

• letters or symbols that represent a number in algebra

Examples x, y, z or π
↑

this symbol is called
"pi" it's approximately
3.14



Order of Operations

- Very important!
- The correct order you work out a math problem
- Remember by "PEMDAS"

Please Excuse My DEAR Aunt Sally.....

What is the order? PEMDAS

1. P - parenthesis - do what's inside first
2. E - exponents/powers next
3. M/D - multiplication/division from left \rightarrow right
4. A/S - addition/subtraction from left \rightarrow right

Example $3(6 + 2^2) \div 15 + 5$

P $3(\underline{6 + 2^2}) \div 15 + 5$

E $3(6 + \underline{4}) \div 15 + 5$

M $\underline{3(10)} \div 15 + 5$

D $\underline{30} \div 15 + 5$

A $2 + 5$

7 ANSWER



Translating Verbal and Algebraic Phrases

- know key phrases, examples
- “a number” - variable
- “is” - = sign

$4x + y$
 ↓ ↓ ↘
 “four times a number plus another number”

“the product of two numbers plus 3”
 ↓ ↙ ↘
 $xy + 3$



Equations/Inequalities/Solutions

Equations - math statements that have a equal sign, =.

Examples $6 = 6$ $x + 2 = 8$

Equations with a variable are called “open sentences”

Inequalities - math statements that have a $<$, $>$, \leq , \geq , \neq symbol

Examples, $9 > 2$ or $3x + 6 \leq 12$

Solutions - Any value for a variable that makes AN equation or inequality true