

BE-1A TUESDAY 8-15-06

EVALUATE $\Rightarrow$ WHICH MEANS FIND
A VALUE OR ANSWER

① 2^6

② 4^3

③ 3^2

THIS IS ONE OF THE MOST
OFTEN MISSED PROBLEMS, WHAT
DO YOU THINK THE MOST
COMMON WRONG ANSWER IS?

④ 3^3

⑤ $6'$

EXPONENT

①

This type of expression is called A "power". It means multiply the base AN EXPONENT number of times

$$\text{Ex) } 3^1 = 3$$

$$3^2 = 3 \cdot 3$$

$$3^3 = 3 \cdot 3 \cdot 3$$

$$3^4 = 3 \cdot 3 \cdot 3 \cdot 3$$

$$3^5 = 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$$

EXPONENT

3^1 is read, 3 to the first power

3^2 is read, 3 to the second power

3^3 is read, 3 to the ^{or} 3 squared third power
^{or}
3 cubed

Convert to a decimal:

$$\frac{7}{10}$$

$$\frac{4}{1000}$$

$$\frac{3}{100}$$

$$\frac{2}{3}$$

What math operation (+, -, •, ÷)
do the following terms refer to:

product

quotient

factors

ex) $3 \cdot 5 = 15$
factors product

NAME THE grouping symbol:

(PARENTHESES)

[BRACKETS]

{braces}

fraction
bar

A MATH EXPRESSION THAT REPRESENTS ONE OR MANY NUMBERS. A VARIABLE MAY BE SHOWN BY A LETTER, LIKE X OR A NAME, LIKE SLOPE. Usually, in Algebra, we will use letters for variables. When you are picking letters, USE MEANINGFUL LETTERS.

EX) don't use X for Area, use A

EX) $F = ma$ $F = \text{force}$
 $m = \text{mass}$
 $a = \text{acceleration}$

EX) $d = rt$ $d = \text{distance}$
 $r = \text{rate}$
 $t = \text{time}$

⑤

A variable, like x or d , may have different values, that is, it may vary. Get it?

Numbers, like 1 , 5 , π , etc. never vary. They are called CONSTANTS.

One (or more) numbers (constants) or variables with one or more MATH operators ($+$, $-$, $\cdot$, $\div$)

Ex, Pg 6 of text

$5x$

$3x - 7$

$4 + \frac{p}{8}$

$3ab \div 5cd$

implied
multiplication

Summary:DEFINE the following

- ① UNDERLINED PLACE VALUE $123.4\underline{5}6$
 $12\underline{3}.456$
- ② PRODUCT
- ③ QUOTIENT
- ④ factor
- ⑤ ()
- ⑥ []
- ⑦ { }
- ⑧
- ⑨ variable
- ⑩ constant
- ⑪ Algebraic expression