

October 15, 2015

Warm-Up



1. Evaluate each of the following:

A. -3^4	B. -2^0	C. $-(-4)^3$	D. $-(-4)^0$
$-(3 \times 3 \times 3 \times 3)$	-1	$-(-4 \times -4 \times -4)$	-1
-81		64	

2. Express each of the following using powers of 10.

A. 32 458	B. 500 203
$3 \times 10^4 + 2 \times 10^3 + 4 \times 10^2 + 5 \times 10^1 + 8 \times 10^0$	$5 \times 10^5 + 2 \times 10^2 + 3 \times 10^0$
$3 \times 10^4 + 2 \times 10^3 + 4 \times 10^2 + 5 \times 10^1 + 8 \times 10^0$	

3. Write in standard form

$$4 \times 10^6 + 3 \times 10^3 + 2 \times 10^0 + 1 \times 10^4$$

$$4 \times 10^6 + 1 \times 10^4 + 3 \times 10^3 + 2 \times 10^0$$

$$4 \ 013 \ 002$$

Homework Questions???



Orders of operation

[BEDMAS]

B E D M A S



A. $-(3 + 4 - 6) \times 5 - (2)$

$$-(1) \times 5 - (2)$$

$$-5 - 2$$

$$\textcircled{-7}$$

B. $(-5) - [3 - 6 \times 5]$

$$-5 - (3 - 30)$$

$$-5 - (-27)$$

$$\textcircled{22}$$

c. $(4+3) \times 5 - 2$

$$(7) \times 5 - 2$$

$$35 - 2$$

$$\textcircled{33}$$

d. $\frac{17 - 5 \times 2}{4 - -3}$

$$\frac{17 - 10}{4 - -3}$$

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

$$\frac{7}{7} = \textcircled{1}$$

Find the solution

BEDMAS

A. $3^4 + 2^2$

$81 + 4$

(85)

B. $3 - 2^3$

$3 - 8$

-5

C. $(3 + 2)^3$

$(5)^3$

(125)

D. $(5 - 9)^4$

$(-4)^4$

256

~~-4^4~~

What is the answer???

BEDMAS



~~-7488~~ ⁻¹⁹⁸
~~13824~~ ²¹⁰⁰⁰ ~~-128~~

A. $[2 \times (-3)^2 - (-6)]^3$

$[2 \times 9 - (-6)]^3$

$[18 - (-6)]^3$

$[24]^3$

13824

B. $(18^0 + 5^0)^2 \div (-2)^3$

$(1 + 1)^2 \div -8$

$(2)^2 \div -8$

$4 \div -8$

-0.5



Let's Try a few more...

C
~~A~~ $-3 \times (30 + 4) - 7^2$

$$-3 \times 34 - 49$$

$$-102 - 49$$

$$\textcircled{-151}$$

$$\begin{array}{r} \textcircled{-151} \\ -158 \\ \hline 53 \end{array}$$



$$B. 0 \times 15^2 \times (400 + 21) \div 19^2 + 5$$

BEDMAS

$$-(3^3 + 4^2)^0 - 4[(-2)]^3$$


$$-(27 + 16)^0 - 4(-8)$$

$$-(43)^0 - -32$$

$$-1 - -32$$

$$\textcircled{31}$$

376
 $-24 \textcircled{31}$
 40
 -33
 75
 511



$$[(-4)^0 \times 10]^6 \div (15-10)^2$$

200 000
40 000

$$[1 \times 10]^6 \div (5)^2$$

$$[10]^6 \div 25$$

$$1000000 \div 25$$

40 000



$$(-2)^4 \quad -2^4$$



Classwork/Homework

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3,4,5,6 , 10 [a]

$$3.a) \quad \begin{array}{r} 3^2 + 1 \\ 9 + 1 \\ 10 \end{array}$$

Answers
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