Section 2.3 Orders of Operations with Powers

BEDMAS

Orders of operation [BEDMAS]

A. -(3 + 4 - 6) x 5 - (2)

-(1) x 5 - 2

-1 x 5 - 2

-5 - 2

-7

B. (-5) - [3 - 6 x 5]

-5 - [3 - 30]

-5 - (-27)

22

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 $(5)^3$

125 125

D. $(5-9)^4$

$(-4)^4$

256

BEDMAS

What is the answer???

-3^2

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

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

$[18 - -6]^3$

$[24]^3$

13824

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

$(1+1)^2 \div (-2)^3$

$(2)^2 \div (-2)^3$

$4 \div -8$

-0.5

Let's Try a few more...

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

$-3 \times 34 - 49$

$-102 - 49$

-151

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

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

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

$-(43)^0 - -32$

$-1 - -32$

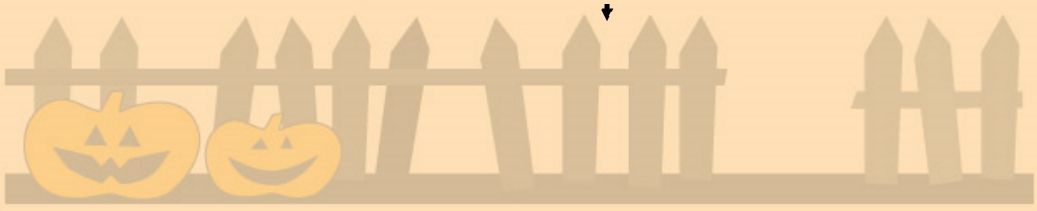
31

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

$-(1) - 4(-8)$

$-1 - -32$

31



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

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

$$10^6 \div 25$$

$$1\,000\,000 \div 25$$

$$40\,000$$

$(-2)^4 - 2^4$

$16 - 16$

0

$2^2 - 4(-3^4)$

4×-3^4

$4 - 4(-81)$

$4 - -324$

328

Classwork/Homework

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3,4,5

3.a) $3^2 + 1$

$9 + 1$

10

Answers

#3 a) 10 e) 8 i) -14

b) 8 f) 0 j) -12

c) 16 g) 36

d) 4 h) 4

#4. a) 40 e) -200

b) 50 f) -10

c) 80 g) -8

d) 100 h) 1

#5 a) 0 e) -8

b) -1 f) 1

c) 35 g) -64

d) 125 h) 8

Worksheet to pass in...