

Warm-Up

October 9, 2018



1. -2^6

A. What is the base? 2

B. Write as a repeated multiplication.

C. Evaluate -64

$$-2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$-(2 \times 2 \times 2 \times 2 \times 2 \times 2)$$

2. Evaluate.

a) $(18 \div 3^2 + 1)^4 - 4^2$

$$(18 \div 9 + 1)^4 - 16$$

$$(2 + 1)^4 - 16$$

$$3^4 - 16$$

$$81 - 16$$

$$65$$

$$\begin{array}{r} \times 13 \\ 17 \\ \hline 221 \end{array}$$

b) $(18 \div -3^2 + 1^4) - 4^2$

$$(18 \div -9 + 1) - 16$$

$$(-2 + 1) - 16$$

$$-1 - 16$$

$$-17$$

$$(8 - 5)^3 + 2^5 \div (-4^2) \quad \cancel{29} \quad 29$$

$$(3)^3 + 32 \div -16 \quad \left. \begin{array}{l} -4 \times 4 \\ (-4)^2 \\ (-4^2) \end{array} \right\} \quad \textcircled{25}$$

$$27 + 32 \div -16$$

$$27 + -2$$

$$\textcircled{25}$$

$$(5^3 \times 4^2)^0 - (6^2 - 8^0)$$

$$(125 \times 16)^0 - (36 - 1)$$

$$1 - 35$$

$$\textcircled{-34}$$

$$-34$$

$$34$$

$$-36$$

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

~~$$(-2)$$~~

$$8 - 4(-16)$$

$$8 - -64$$

$$72$$

~~$$\begin{array}{r} -64 \\ 72 \\ -72 \\ \hline -56 \end{array}$$~~

$$\frac{3^2 (2^3 + 3^0)^3 + 3^2}{4^2 - 5^2}$$

$$\frac{9(8+1)^3 + 9}{16-25}$$

$$16-25$$

$$\frac{9(9)^3 + 9}{-9}$$

$$-9$$

$$\frac{9(729) + 9}{-9}$$

$$\frac{6561 + 9}{-9} = \frac{6570}{-9} = -730$$

BEDMAS

$$\frac{2^4 + (16 - 3 \times 4)}{(6 + 3^2) \div (7 - 4)}$$

$$\frac{16 + (16 - 12)}{(6 + 9) \div 3}$$

$$\frac{16 + 4}{15 \div 3} = \frac{20}{5} = 4$$



Classwork/Homework

Page 66 ^{all} 3, 4, 5, 8, 10, 16 ^{all} [all]

← a, c, e ← a, c, e

Evaluate

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Worksheet

Warm-up tomorrow will be passed in.

8. a) 3
c) 37
e) 4

10. a) -392
c) -8
e) 16

16. a) -197 568
b) -92 000
c) -4
d) 40.5
e) 16 9744
f) -1 185 191