

## Warm-Up

October 29, 2015

Write  $(7 \times 10^7) + (4 \times 10^2) + (6 \times 10^0) + (5 \times 10^5)$  in standard form.

$$7 \times 10^7 + 5 \times 10^5 + 4 \times 10^2 + 6 \times 10^0$$

70 500 406

Evaluate: 
$$\frac{6^3 \times (2+5)^2 \times 7(-9)^0}{-(5)^0 \times 7^3 \times (8-2)^2}$$

$$\frac{216 \times (7)^2 \times 7(1)}{-1 \times 343 \times (6)^2}$$

$$\frac{216 \times 49 \times 7}{-1 \times 343 \times 36}$$

$$\frac{74\ 088}{-12\ 348}$$

(-6)

Which expressions have negative values?

i)  $\left[-(-3)^9\right]^9$

ii)  $\left(-3^9\right)^9$

iii)  $\left[(-3)^9\right]^9$

iv)  $- \left[(-3)^9\right]^9$

$-(-3)^{81}$  ← odd  
 $-(-)$  positive

$-3^{81}$  negative

$(-3)^{81}$  ← odd neg

$-(-3)^{81}$  positive

a. ii and iii

b. iii and iv

~~c. i and iv~~

~~d. i and ii~~



# Evaluate

BEDMAS

$$3^2 + 4(5 - 2^2)$$

$$9 + 4(5 - 4)$$

$$9 + 4(1)$$

$$9 + 4$$

$$\textcircled{13}$$

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

$$\frac{25 + 3 \times 16 - 9}{9 - (5 \times 1)}$$

$$9 - (5 \times 1)$$

$$\frac{25 + 48 - 9}{9 - 5}$$

$$9 - 5$$

$$\frac{64}{4} \textcircled{16}$$

~~$$4 + 6 \times 9$$~~



Simplify, then evaluate.

$$\frac{(-2)^6 \times (-2)^2}{(-2)^3 \times (-2)^0}$$

$$\frac{(-2)^8}{(-2)^3}$$

$$\boxed{(-2)^5}$$

$$\textcircled{-32}$$

Simplify, ~~then evaluate~~

$$\frac{(2^3)^4 \times (2^2)^4}{(2^2 \times 2^6)^2}$$

$$\frac{2^{12} \times 2^8}{(2^8)^2}$$

$$\frac{2^{20}}{2^{16}}$$

$$\textcircled{2^4}$$

or  $\frac{2^{12} \times 2^8}{2^4 \times 6^{12}}$

Simplify and Evaluate:

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

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

$$\boxed{-2^4 - 2^3}$$

$$-16 - 8$$

$$\textcircled{-24}$$

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

$$\frac{-3^6}{3^4} \div -3^2$$

## Chapter 2 Test Tomorrow...Friday, October 30

### 1. Test Review Page 87 -89

1, 2, 3, 4, 6, 7, 8, 9, 10 [a], 12, 13,  
14, 18, 20, 21[a], 23, 24, 26, 27

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Extra!!!

2. Textbook Extra practice Page 90 1, 2, 3, 4, 5, 7, 8

3. Extra assignment...with worked out answers



## Attachments

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page 85 simplified answers.notebook