Review Part 1 - Numbers & Operations

Integers are positive or negative whole numbers.

Rational numbers are ratios (i.e., fractions) with an integer in the numerator and denominator.

Order of Operations (BEDMAS, PEMDAS)

(P)arentheses (B)rackets inside to outside (E)xponents (E)xponents left to right (D)ivision (M)ultiplication left to right (M)ultiplication (D)ivision left to right (A)ddition (A)ddition left to right (S)ubtraction (S)ubtraction left to right

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Fractions with a decimal in the numerator or denominator should generally be written as a decimal.

Fractions with integers in both numerator and denominator should be written as a fraction in reduced form.

To add or subtract fractions, first find the <u>lowest common</u> <u>denominator</u>, then add or subtract the numerators.

To multiply fractions, multiply numerators together and denominators together. They do not mix.

To divide two fractions, take the reciprocal (i.e., flip) of the second fraction and change division to multiplication.

Assigned Work:

Worksheets

- 3 pages on Order of Operations
- 1 page on Fractions

All to be completed and handed in tomorrow.

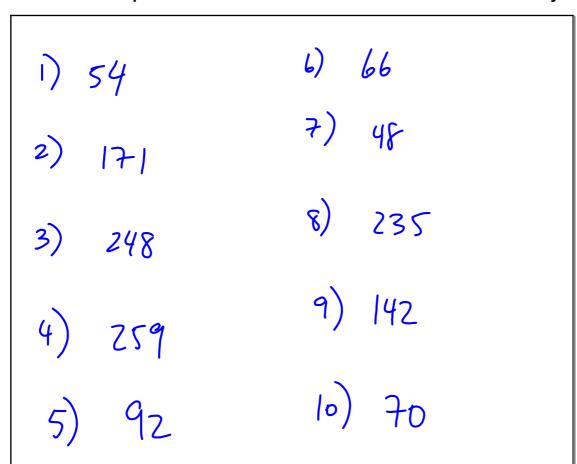
Vocabulary:

Evaluate - determine a value for an expression

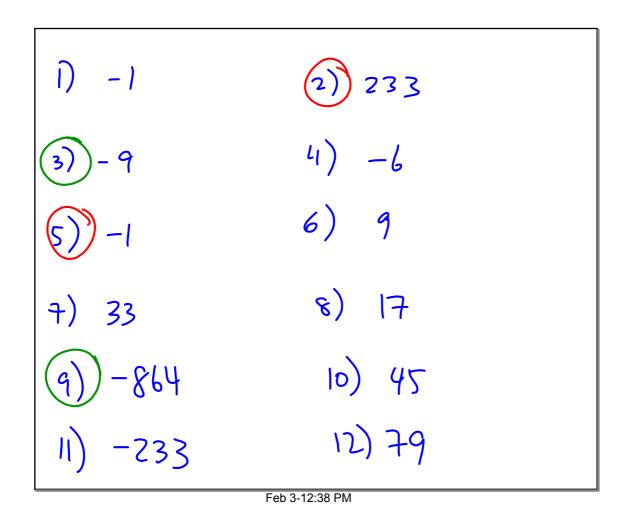
Simplify - rewrite an expression as simply as possible

Expression - a combination of numbers and/or variables using mathematical operations, with <u>no equal sign</u>

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$$p.3 # 9.$$

$$(-7) \cdot \left[(-12) \div (-6) - (-3) \right]^{3} - (-11)$$

$$= (-7) \cdot \left[2 + 3 \right]^{3} + 11$$

$$= (-7) \cdot \left[5 \right]^{3} + 11$$

$$= (-7) \cdot (125) + 11$$

$$= -875 + 11$$

$$= -864$$

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$$p.3 # 5$$

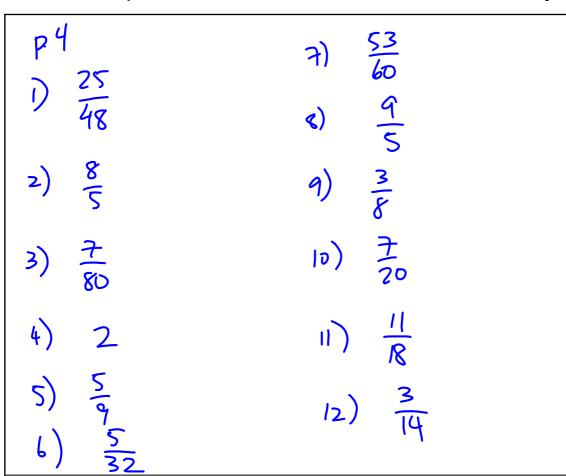
$$5 - 2 \cdot [3 - 5]^{2} + 2$$

$$= 5 - 2 [-2]^{2} + 2$$

$$= 5 - 2 (4) + 2$$

$$= 5 - 8 + 2$$

$$= - |$$



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