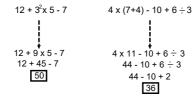
#4 WORK OF THE WEEK (Gr 8)

Due Thurs., May 7th

I) Use the Order of Operations to solve each:

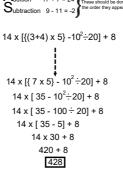
Remember, across the globe - it has been agreed upon that this is to be the order in which these sort of mathematics questions are to be completed Brackets (5 + 3) = 8Exponents $7^2 = 49$ Division $55 \div 5 = 11$ Multiplication 13 x 2 = 26 ddition 17 + 7 = 24

Examples:



*** There are some steps that can be simultaneously, but it is safer to take your time and do one step at a time. ***

That SQUARE ROOT is basically another way to write a fractioned EXPONENT, so it should be completed directly after brackets.



a)
$$24 \div (16 - 14)^2 - 2^2$$

$$[3 + (7 - 3^2) + 4^2 \div 8]$$

$$15^2 + \sqrt{100} \times (121 + \frac{1}{2})$$

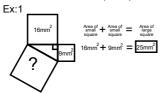
d) { 14 + 11(5 +
$$\sqrt{16}$$
) + 10 - 3² } e) 155 - 13² + (8 x 4 + 3² - 4²)²

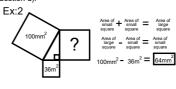
e)
$$155 - 13^2 + (8 \times 4 + 3^2 - 4^2)^2$$

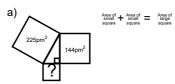
II) A little taste of the Pythagorean Theorem

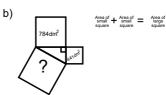
Pythagorus said that in a right angle triangle, there is a relationship between the areas of the imaginary squares that could be drawn off of the sides of the triangle. In short, it states that the sum of the areas of the squares built off of the 2 legs must be the same as the area of the square built off of the longest side (hypotenuse).

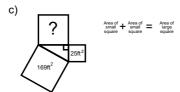
Determine the unknown area(the "?"). Be careful of question d).







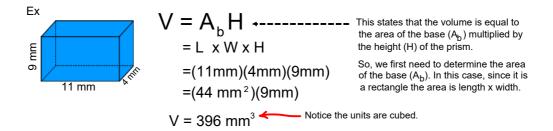


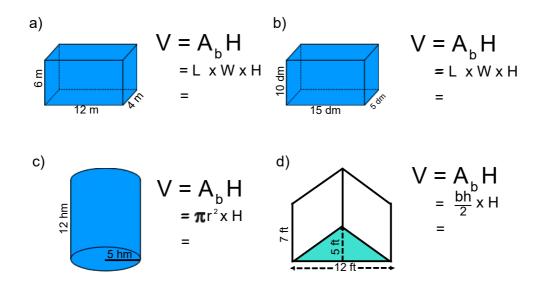




^{**} We'll get into more challenging Pythagorean Theorem questions next week. **

III) Determine the volume of each prism





IV) Multiply using the partial product method

