Algebra Test

name : _____

Please show all work **neatly** on a separate piece of paper.

I need the test back to me by **Wednesday 3 pm**.

1. Explain fully 2 ideas / concepts every student must know
    to have a good understanding of algebra.

    Here is an example (you can not use it)
        zero pairs for cancelling. You need to add the opposite operation.
        $2 - m = -3$ you need to add -2 to each side to cancel.

2. Solve **all with math**, **solve any 2 with algebra tiles**
    a. $2 + (p) = -3$
    b. $(-m/3) = 2$
    c. $(2d) - 1 = 4$
    d. $(-k/2) + 1 = -3$
    e. Solve 3 different ways   -   Divide First/ Distribute / Algebra Tiles
        $2(h - 1) = -4$

3. Explain distribution in words with pictures.
     Use examples and I <u>love arrows.</u>

4. a. Word problems can confuse students and adults alike,
        what are the steps I should follow to help me solve these questions.
       Why are they so tricky? What variables should I use?
       What variables should I try and stay away from? Explain

    b. The difference between Two and a number is negative Five.
        Find the number.

    c. A square picture will have a 3 cm border around it and an outer
        perimeter of 72 cm. How long is the picture
    Please include a labelled sketch and formulas for full marks.
    <u>Show me what you have learned</u>