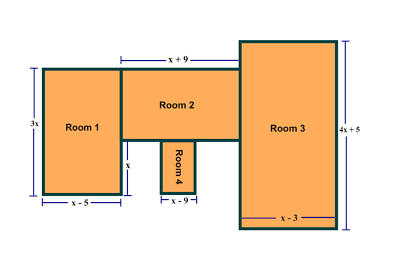
**Polynomial Project**

**Project Assignment:**

1.  Be sure to include all parts.

2.  You will need to do some mathematical calculations in order to complete all the parts! All work must be shown to receive credit.

[](http://1.bp.blogspot.com/-ThKzCVLN5hY/TzKo8eYtdoI/AAAAAAAAAAk/jtugkbBVzYw/s1600/poly+proj+diagram+in+pub.png)

**Project Details:**

You are building a house with the above floor plan.

1. Perform the appropriate operations on the polynomial dimensions to determine the perimeter of each room and entire house in terms of x.

2. Determine the area of the each room and entire house in term of x.

**Rubric:**

**- Perimeter (Total of 10 points)**:

The perimeter of each room and the entire house is worth 2 points

* **Area (10 points)**

The area of each room and the entire house is worth 2 points

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Room | Perimeter |
| Room 1 |  |
| Room 2 |  |
| Room 3 |  |
| Room 4 |  |
| Entire house |  |

|  |  |
| --- | --- |
| Room | Area |
| Room 1 |  |
| Room 2 |  |
| Room 3 |  |
| Room 4 |  |

Homework: 1-4; Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_

Definitions: Look up the following definitions for the fowling properties and provide an example for each:

1. Distributive property of equality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Addition property if equality:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Commutative property if equality:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Associative property if equality:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Answer the following question:

When solving the equation Emily wrote **computations**  as her first step. Which property justifies Emily’s first step?

(1) addition property of equality

(2) commutative property of addition

(3) multiplication property of equality

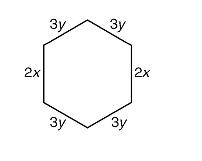
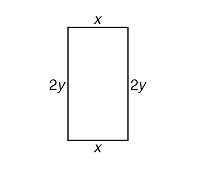
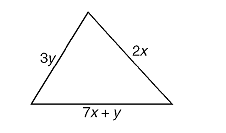
(4) distributive property of multiplication over addition

**Blast from the past: Find the product:**

1. 2.

3.  **4**. 

5. **Find the perimeter for the following diagrams:**



6. Back to Adding a Subtracting: Combine the following terms: