Copy this house into the middle of a piece of squared paper:

1. Imagine moving the house 5 squares to the right and 2 squares up. Draw this *image* andlabel it **A**.
2. Now draw the image if it is moved 8 squares right and 4 up, and label this **B**. The shorthand way of writing this is: We call this a *vector*.

Write the movement in question 1 as a vector.

1. Draw the house after it has moved by the following vectors. **C**. **D**. **E**.

4. Suppose now that we wanted to move the house 5 squares to the right and 4 squares **down**. What numbers could we put into the vector to show this? Draw this change of position and label it **F**. Draw the house after these vectors have moved it.

**G**. **H**. **I**.

5. Suppose that we now want to move the house to the **left**. Describe in words what these vectors might mean:

1. Draw the house after these movements.

 **J**. **K**. **L**.

