

Math Puzzler #30

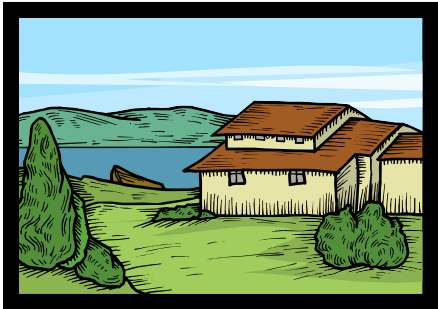
Due 5-17-16

Name _____

Hour _____

Date _____

1. A rectangular painting is has a border that is 2.5 inches wide on all edges of the painting. Is the inner rectangle of the border similar to the outer rectangle of the border? (Hint: remember, similar polygons are proportional)



2. The puzzle below is a shift cipher, or a coded message. This means that all letters have been shifted a certain amount. Example: Suppose I shift all letters +2, so if I have an A in my message, I would shift it two letters and write a C for my code. Solve the code below by first figuring out how much I shifted the alphabet, then write the answer.

Bmfy it dtz hfqq f knxm bnym st jdjx?

F kxm!