Assignment:

1. Show how to solve this problem using algebra tiles. Carefully show each step.



2. Jack climbed up the bean stalk to the Giants house. He found that the steps to the giants house were 4× as high as the steps to his house. If the Giant and everything else in his house is likewise proportionally larger than Jack (has the same linear scale factor), answer these questions:

a. Jack is 5’10” tall. How tall is the Giant?

b. It takes 2 yards of 36” width fabric (which is 2 square yards) to make a shirt for Jack. How much fabric would you need to make a shirt for the Giant?

c. It takes 9 ounces of paint to paint Jack’s front door. How much paint would it take to paint the Giant’s front door?

d. Jack’s cup holds 1 cup of water. How much water does the Giant’s cup hold?

3. Explain/show why 

4. Fix each of these equations by making them into shorter one-step equations

a.  b. 

4. Fix each of these equations by making them into a complex equation where all numbers are included at each step.

a. 

b. 

5. In a way that uses equals signs properly, show this strategy for multiplying 6×7:

“Five times 6 is 30, and then add 6 so that’s 36, and add another 6 and that’s 42”