Task #1:

To obtain the height of the Chrysler Building in New York, you measure the building’s shadow and find that it is 87 feet long. You also measure the shadow of a four-foot stake and find that it is 4 inches long. How tall is the Chrysler Building?

Task #2:

A grocer mixes peanuts that cost $2.49 per pound and walnuts that cost $3.89 per pound to make 100 pounds of a mixture that costs $3.19 per pound. How much of each kind of nut is put into the mixture?

Task #3:

A bedroom is 3 feet longer that it is wide and has an area of 154 square feet. Find the dimensions of the room.

Task #4:

An equilateral triangle has a height of 10 inches. How long is one of its sides?