Investigating Stairs

Measure two steps of a staircase. Measure the height and depth of each step with a ruler.

Record your measurements below:

#3

#4

Questions:

1. How could the measurements be changed to make the staircase steeper? Can you think of another way?
2. How could the measurements be changed to make the staircase less steep? Can you think of another way?
3. What is the vertical distance between the first and last step?
4. What is the horizontal distance between the first and last step?
5. Create a proportion comparing the height and depth of one step as compared to the height and depth of the two steps combined? Is this proportion equal?