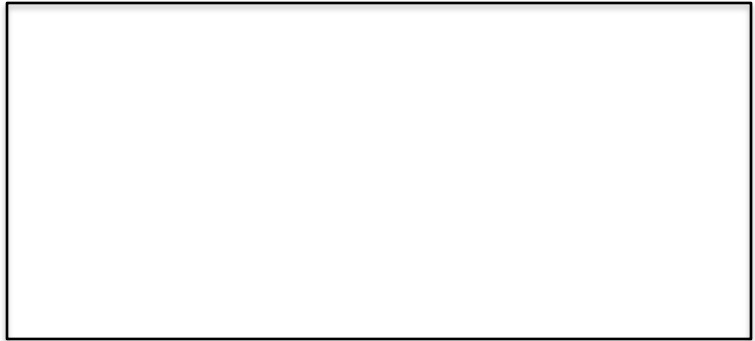
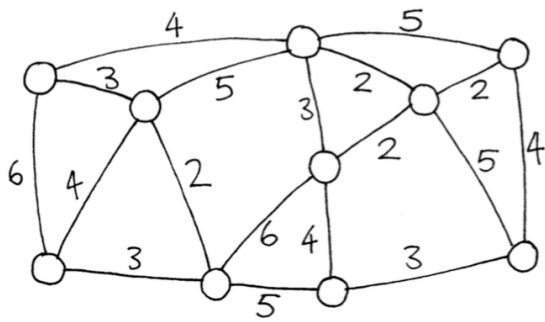


**Purpose:** Understanding Graphs

Here is another way of representing the cities and roads:



The houses are represented by circles, the muddy roads by lines, and the length of a road is given by the number beside the line.

Computer scientists and mathematicians often use this sort of diagram to represent these problems. They call it a **graph**. This may be confusing at first because “graph” is sometimes used in statistics to mean a chart displaying numerical data, such as a bar graph, but the graphs that computer scientists use are not related to these. The lengths do not have to be drawn to scale.

Look at the Muddy City map once again. In the rectangle provided above, create a Graph to match the city’s layout (*circles = the houses & lines equal the number of pavers*).