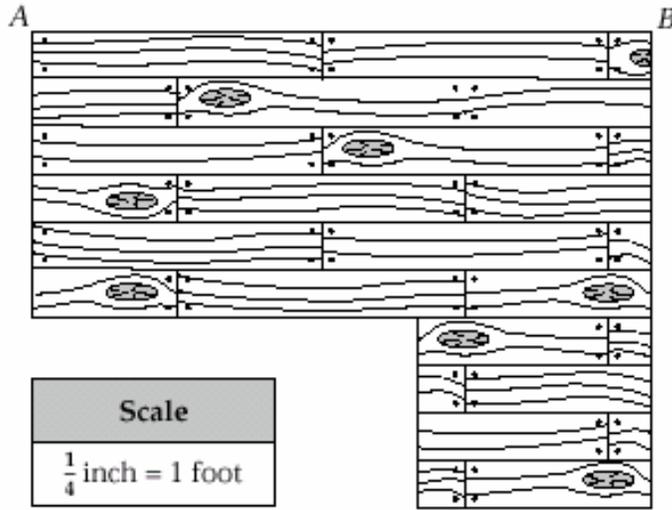


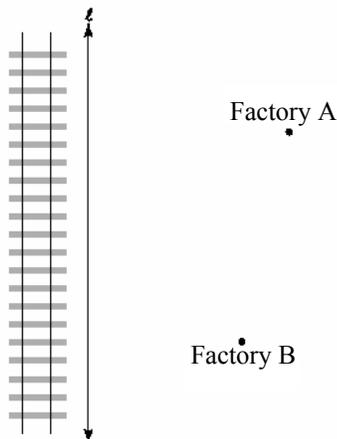
Drawing and Construction Examples

1. A scale drawing of a deck is shown below. (*HSA 2000 Public Release Question*)



On the actual deck, what is the length, in feet, of \overline{AB} ?

2. Elizabeth draws a right triangle with angles of 52° and 38° . Complete the following: (*HSA 2000 Public Release Question*)
- Draw a right triangle using these angle measurements. Label the measure of each angle.
 - Will any right triangle with angles of 52° and 38° be congruent to Elizabeth's triangle? Use mathematics to justify your answer.
3. Two factories are located near a railroad. There is a loading platform on line l equidistant from the two factories. (*HSA 2001 Public Release Question*)



- Use geometric constructions to determine the location of the loading platform. Label the loading platform with an X.
- Use mathematics to justify your answer.

- Answers:
1. 12 feet
 2. No, there is no AAA Congruency.
 3. Where the perpendicular bisector of \overline{AB} meets line l . The reasoning can include SAS Congruency or if a point is on the perpendicular bisector it is equidistant from the endpoints of the segment.