1) The action figure toys of a multinational toy company are based on the usual ideal human figure of 6 feet for standardization purpose. If a common scale factor of 1 inch = 2 feet is applied, determine the height of an action figure toy.

2) Fabian makes a scale drawing of his tree house with a scale factor of 1 foot = 0.44 inch. If the length of the tree house in the drawing is 3.52 inches, what is the actual length of the tree house?

3) The distance between the starting point and the finishing line of the Boston Marathon is 4 inches on an interactive course map. If a scale factor of 1 inch = 6.55 miles is used to design the map, calculate the actual distance between the start and end points of the marathon.

4) The captain of the ship used a nautical map to find the distance between the two marinas. He planned to sail from Sally Hook to Pelican Bay which covers a distance of 69 nautical miles. On the map, the same distance is shown with a scale factor of 1 inch = 9.2 miles. Find the distance depicted on the nautical map.

5) Scale factor : 1 inch = 7.4 feet  
   Scale factor : 1 inch = 19 feet

   Actual height of the tree = ___________  
   Actual height of the Leaning Tower of Pisa = ___________
1) The action figure toys of a multinational toy company are based on the usual ideal human figure of 6 feet for standardization purpose. If a common scale factor of 1 inch = 2 feet is applied, determine the height of an action figure toy.

3 inches

2) Fabian makes a scale drawing of his tree house with a scale factor of 1 foot = 0.44 inch. If the length of the tree house in the drawing is 3.52 inches, what is the actual length of the tree house?

8 feet

3) The distance between the starting point and the finishing line of the Boston Marathon is 4 inches on an interactive course map. If a scale factor of 1 inch = 6.55 miles is used to design the map, calculate the actual distance between the start and end points of the marathon.

26.2 miles

4) The captain of the ship used a nautical map to find the distance between the two marinas. He planned to sail from Sally Hook to Pelican Bay which covers a distance of 69 nautical miles. On the map, the same distance is shown with a scale factor of 1 inch = 9.2 miles. Find the distance depicted on the nautical map.

7.5 inches

5) Scale factor : 1 inch = 7.4 feet

Model

6.8 inches

Actual height of the tree = 50.32 feet

Model

10 inches

Actual height of the Leaning Tower of Pisa = 190 feet

Answer key

L1S5