Statue of Liberty Math

The Statue of Liberty was a gift to the people of the United States from the people of France. It was presented to the United States in 1886 and has become a symbol of the United States. The Statue of Liberty represents freedom to people all over the world. The famous immigration station at Ellis Island, along with the Statue of Liberty, comprise the Statue of Liberty National Monument.

Today, millions of immigrants have passed by the Statue of Liberty. In many of these immigrants, it represented openness, the promise of a better life, and freedom.

Use the facts and measurements below to find answers to the questions at the bottom of the page.

Information	Data
statue (height)	151 feet 1 inch (46.14 m)
pedestal (height)	154 feet (47 m)
torch (height)	21 feet (6.5 m)
length of hand	16 feet 5 inches (5.01 m)
length of right arm	42 feet (12.8 m)
tablet width	13 feet 7 inches (4.1 m)
tablet length	23 feet 7 inches (7.1 m)
slope of statue to torch	17°
slope of pedestal	58°
weight of copper skin	100 tons (90 metric tons)
weight of steel frame	125 tons (113 metric tons)
statue cost	$250,000
pedestal cost	$350,000

Questions:

1. What is the total height of the statue, from the base of the pedestal to the top of the torch?

2. What is the total weight of the statue?

3. How many steps are there in the Statue of Liberty?

4. What is the area in square inches (square meters) of the tablet's surface?

5. How many inches (centimeters) taller than the statue is the pedestal?

6. What fraction of the total cost represents the cost of the statue?

7. About how many feet (meters) is it from the shoulder of the statue's sword arm to the top of the torch?