ESTIMATING QUANTITIES

Three statements were made about the following situations. Two are true and one is false. Mark each statement as true or false and then rewrite the false statement to make it true.

1

A small town in Texas started with a population of 1,200 people 50 years ago. The town now has a population of 1,320,500 people.

STATEMENT	T/F?
The population of the town 50 years ago can be estimated using 1×10^3.	
The current population of the town can be estimated using 1×10^5.	
The current population of the town is about 1×10^3 times greater than it was 50 years ago.	
REWRITE THE FALSE STATEMENT TO MAKE IT TRUE:	

2

Benicio is studying the solar system and learned that the diameter of the Earth's moon is about 3,472,964 meters. Benicio has a beach ball at his house with a diameter of 0.3048 meters.

STATEMENT	T/F?
The diameter of Earth's moon can be estimated using 3×10^6 meters.	
The diameter of the beach ball can be estimated using 3×10^{-1} meters.	
The diameter of Earth's moon is about 1×10^5 times greater than the diameter of the beach ball.	
REWRITE THE FALSE STATEMENT TO MAKE IT TRUE:	

3

The average weight of a bumblebee is about 0.00025 pounds. The average weight of a blue whale is about 330,000 pounds.

STATEMENT	T/F?
The weight of a bumblebee can be estimated using 3×10^{-4} pounds.	
The weight of a blue whale can be estimated using 3×10^5 pounds.	
The weight of a blue whale is about 3×10^9 times greater than the weight of a bee.	
REWRITE THE FALSE STATEMENT TO MAKE IT TRUE:	