

Read the following passage and answer the question:

“The word geometry is derived from the Greek words “geo” (meaning earth) and “metron” (meaning measure). The ancient Egyptians, Chinese, Babylonians, Romans, and Greeks all used geometry in their cultures. It was used for surveying, navigation, astronomy, and many other practical occupations. The Greeks sought to systematize the geometric facts they knew by establishing logical reasons for them and relationships among them. The work of such men as Thales (600 B.C.), Pythagoras (540 B.C.), Plato (390 B.C.), and Aristotle (350 B.C.) in systematizing geometric facts and principles resulted in the geometry text Elements, written about 325 B.C. by Euclid. This most remarkable text has been in use for over 2000 years.”

Due to his extensive work collecting the geometric works of many scholars into one text, Euclid is known as the “Father of Geometry”.

Based on this description, what do you think geometry is?

Geometry, is an axiomatic system. It begins with a small set of **undefined terms** that can be described and builds through the addition of **definitions** and **postulates** to the point where mathematical **theorems** can be proven.

definitions - Statements of meaning.

postulates - Our simplest and most fundamental statements, given without proof.

theorems - These are the statements that we will prove.

List the 3 undefined terms:

