







★ Definition: The mean of a group of numbers is the average. There are several different types of averages used in math. The one you are most familiar with is called the <u>arithmetic mean</u>. In this type of average, you add up all the terms and then divide by the total number of terms in the group. This type of average is often used to calculate your grade in a certain class.

The type we will be using in this chapter is called a <u>geometric mean</u>, which is often called a <u>mean</u> <u>proportional</u>. To find the geometric mean between 2 values, you place the values as the second and third terms in a proportion. Using x in as the first and fourth terms, you then cross-multiply and solve for x.

Example 7. Johnny received a 78 and a 91 on his first 2 algebra tests. What's Johnny's average?

Example 8. Find the geometric mean between 2 and 18.

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Example 9. 15 is the mean proportional between 5 and what number?