# The first book of geometry

*Grace Chisholm Young*

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**The first book of geometry** Grace Chisholm Young
This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1905 Excerpt: ...because when we were comparing incongruent circles, we could compare their areas directly by superposition, but we could not superpose any parts of their boundaries, or circumferences, and so could not draw any conclusion as to their relative greatness. Thus, in order to compare the areas of two squares, we only need to know the comparison of their sides; the square of greater side has the greater area, and if the sides are equal the areas are also equal. Square Measure.--A square of side one inch is said to have an area of one square inch. If we take a square of side 2 inches, and bisect its sides, and join the points of bisection of opposite sides, we have divided the square into 4 squares, each having an area of 1 square inch; thus the area of a square of side 2 inches is 4 square inches, that is twice 2 square inches, (4 sq. in.). In the same way the area of a square of side 3 inches is three times three square inches, or 9 square inches, and that of a square of four inches is four times four, or 16, square inches. These numbers 4, 9, 16, 25, 36, etc., are called the square numbers. Four is called the square of two, and written 22; nine is the square of three, 32, and so on, because they are the number of square inches in the areas of the squares just considered.1 The rule for calculating the number of square inches in any square is as follows:--measure the side of the square, and multiply the number of inches in it by the same number, or, as we say, square this number; the product gives the number of square inches in the area. You will see at once that all that has here been said would be the same if we had taken a centimetre, or any other standard length, instead of an inch. The area of a square of side one centimetre is said to be one square centimet...

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