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MENSURATION.

A few more useful things in Measuring.

A figure of 3 sides is called a TRIANGLE: when all the 3 sides are equal in length, it is called an equilateral triangle; when 2 of its sides are equal, it is called an isosceles triangle; when all its sides are unequal, a scalene triangle. Triangles are also denominated right angled (as that in page 142) and oblique angled triangles.

To find the area of a triangle, of any form or size.

RULE I. Multiply the base by the perpendicular height, and half the product will be the content or area.

Rule 11. When the 3 sides only are given. From 1 the sum of the 3 sides subtract each side separately; multiply the half sum and the three remainders continually together; and the square root of the product will be the area.

1. How many square yards are in a triangle, whose base is 40, and perpendicular height 30 feet?

Ans. 663 sq. yds.

2. Required the content of a triangle, whose base is 18 feet 4 inches, and height 11 feet 10 inches.

Ans. 108 ft. 5 in. 8 pts.

3. What is the area of a triangular field, whose base is 6.25 chains, and height 5.20 chains?

Ans. 1 a. 2 r. 20 per.

4. How many square yards are in a triangle, whose three sides are 13, 14, 15, feet?

Ans. 94 sq. yds.

5. Required the area of a triangular field, whose base is 40 chains, and its perpendicular height 15 chains. Ans. 30 a.

6. How many acres are in a triangular field, whose 3 sides are 380, 420, 760 yards?

Ans. 9 a. 3 r. 6.8 per.

A figure of 4 sides is called a quadrangle or quadrilateral. When all its sides are equal, and all its angles right angles, it is called a square: when all its angles are right ones, but its length greater than its breadth, it is called a parallelogram: when all its sides are equal, but its angles oblique, it is called a rhomboid.

To find the orea of all these four-sided figures: Multiply the length by the breadth.

7. How many acres are in a square field, whose side is 18.25 chains?

Ans. 33 a. 1 r. 9 per.