

Square Facts

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- 1. The Square is a 2-Dimensional Shape.**
- 2. Its Measurement is taken in 2 Dimensions.**
- 3. The Perfect Square is the square whose Sides are the Same Length and all Interior Angles equal 90 Degrees.**
- 4. A Square is a 4 Sided figure, a Quadrilateral.**
- 5. Most Quadrilaterals are Irregular.**
- 6. When we use the word Square we mean “Perfect Square”.**
- 7. The Diagonal of a Square is a Straight Line drawn from one Interior Angle to another.**
- 8. The Diagonal Bisects the Square and forms 2 Right Triangles that are equal and share a common side for a Hypotenuse.**
- 9. Bisecting a Square will produce two 45,45,90 Triangles.**
- 10. The Length of the Diagonal of a Square is Found by Multiplying the Length of one of its Sides by the Square Root of 2.**

11. The Square Root of 2 is Equal to $2^{1/2}$; $\sqrt{2} = 2^{1/2}$.
12. The Square Root of 2 is the Approximate Value of 1.414 or 1.41421 .
13. D is for Diagonal and S is for the Side; so that the Diagonal = $D = S * (2^{1/2})$ Or $D = S(\sqrt{2})$.
14. The Boundary of a Square is called its Perimeter.
15. The Lengths of the Perimeter of a Square or any Quadrilateral is Found by Adding the Lengths of all 4 Sides;
$$P = S_1 + S_2 + S_3 + S_4$$
16. The Area of a Square is the Space within its Boundary.
17. The Area of a Square is Found by Multiplying its Length by its Width.
18. The Area of a Square is the Product its Length & Width.
19. Area = A, Length = L, W = Width, Side = S .
20. The Ratio of the Squares' Perimeter to its Diagonal is Two and Six-Sevenths, $(2\frac{6}{7})$.