

3. (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence).
4. (Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence)
5. (Prove) The angles opposite to equal sides of a triangle are equal.
6. (Motivate) The sides opposite to equal angles of a triangle are equal.

#### 4. QUADRILATERALS

(13) Periods

1. (Prove) The diagonal divides a parallelogram into two congruent triangles.
2. (Motivate) In a parallelogram opposite sides are equal, and conversely.
3. (Motivate) In a parallelogram opposite angles are equal, and conversely.
4. (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal.
5. (Motivate) In a parallelogram, the diagonals bisect each other and conversely.
6. (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side and is half of it and (motivate) its converse.

#### 5. CIRCLES

(17) Periods

1. (Prove) Equal chords of a circle subtend equal angles at the center and (motivate) its converse.
2. (Motivate) The perpendicular from the center of a circle to a chord bisects the chord and conversely, the line drawn through the center of a circle to bisect a chord is perpendicular to the chord.
3. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the center (or their respective centers) and conversely.
4. (Prove) The angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle.
5. (Motivate) Angles in the same segment of a circle are equal.
6. (Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle.
7. (Motivate) The sum of either of the pair of the opposite angles of a cyclic quadrilateral is  $180^\circ$  and its converse.

### UNIT V: MENSURATION

#### 1. AREAS

(5) Periods

Area of a triangle using Heron's formula (without proof)

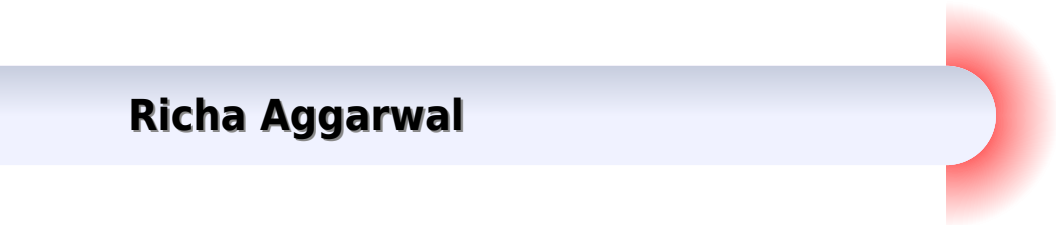
#### 2. SURFACE AREAS AND VOLUMES

(17) Periods

Surface areas and volumes of spheres (including hemispheres) and right circular cones.

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**Richa Aggarwal**



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**NCERT Solutions - Mathematics for Class IX** Richa Aggarwal, 2014-01-01 Keeping in mind the immense importance and significance of the NCERT Textbooks for a student Arihant has come up with a unique book containing only and all Question Answers of NCERT Textbook based questions This book has been designed for the students studying in Class IX following the NCERT Textbook of Mathematics The present book has been divided into two parts covering the syllabi of Mathematics into Term I and Term II Term I covers chapters namely Number Systems Polynomials Introduction to Euclid s Geometry Lines and Angles Triangles Coordinate Geometry Heron s Formula and Linear Equations in Two Variables Term II Quadrilaterals Areas of Parallelograms Triangles Circles Constructions Surface Areas Volumes Statistics and Probability This book has been worked out with an aim of overall development of the students in such a way that it will help students define the way how to write the answers of the textbook based questions This book has answer to each every question covered in the chapters of the textbook for Class IX Mathematics Also each chapter in the book begins with a summary of the chapter which will help in effective understanding of the theme of the chapter and to make sure that the students will be able to answer all popular questions concerned to a particular chapter whether it is Long Answer Type or Short Answer Type Question The book has been designed systematically in the simplest manner for easy comprehension of the chapters and their themes The book also covers selected NCERT Exemplar Problems which will help the students understand the type of questions and answers to be expected in the actual Class IX Mathematics Examination As the book has been designed strictly according to the NCERT Textbook of Mathematics for Class IX and provides a thorough and complete coverage of the textbook based questions it for sure will help the Class IX students in an effective way for Mathematics

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