**Identifications09**

**Group Theory**

**Non-Euclidean Geometry**

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|  |  | Dates | Notes |  |
| 1 | Evariste Galois |  |  |  |
| 2 | A Group; A Ring; A Field |  |  |  |
| 3 | Galois Theory |  |  |  |
| 4 | Niels Henrik Abel |  |  |  |
| 5 | Solution of the Quintic equation |  |  |  |
| 6 | Algebraic Number, Transcendental Number |  |  |  |
| 7 | Projective Geometry |  |  |  |
| 8 | Pascal’s Mystic Hexagon |  |  |  |
| 9 | SAS Theorem in Euclid |  |  |  |
| 10 | The Absolute or Neutral Geometry |  |  |  |
| 11 | Girolamo Saccheri and  Saccheri Quadrilaterals |  |  |  |
| 12 | Johann Lambert and  Lambert Quadrilaterals |  |  |  |
| 13 | John Bolyai |  |  |  |
| 14 | Nicolai Lobachevsky |  |  |  |
| 15 | Playfair’s Axiom |  |  |  |
| 16 | Hilbert’s Axioms of Geometry |  |  |  |
| 17 | Hyperbolic Geometry |  |  |  |
| 18 | Elliptic Geometry and “Double” Elliptic Geometry |  |  |  |
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