

GOVT HIGH JAYANAGAR 9TH BLOCK
MATHEMATICS 9 STANDARD
CHATER; INRODUCTION TO EUCLIDS GEOMETRY

FILL IN THE BLANKS:

- 1) Geometry comes from the Greek word _____ and _____.
- 2) Geo means the _____.
- 3) Meterian means _____.
- 4) Geometry appears to have originated from the need for _____.
- 5) Egyptians know the correct formula to find the volume of a _____.
- 6) Truncated pyramid figure _____.
- 7) The bricks used in Indus valley civilization for construction in the ratio, length: breadth: thickness was found to _____.
- 8) In ancient India the _____ were the manuals of geometrical constructions.
- 9) The Geometry of the vedic period originated with the construction of _____ and _____.
- 10) The shape of altars for house hold rituals are _____ and _____.
- 11) The shape of altars for public worship were combination of _____, _____ and _____.
- 12) The sriyantra consists of _____ inter woven _____ triangles.
- 13) The Greek mathematician is credited with giving the first known proof is _____.
- 14) One of Thales most famous pupils was _____ (572 BCE).
- 15) Father of Geometry is _____.
- 16) Euclid collected all the known work and arranged in his book called _____.
- 17) Elements has _____ chapters.
- 18) A solid has dimension _____ and _____.
- 19) The boundaries of solid is called _____.
- 20) The boundaries of surfaces are _____ or _____.
- 21) A solid has _____ dimensions.
- 22) A surface has _____ dimensions.
- 23) A line has _____ dimensions.
- 24) A point has _____.
- 25) The ends of a line are _____.
- 26) A line is breadth less _____.
- 27) The edges of a surface are _____.
- 28) A surface is that which has _____ and _____ only.
- 29) Axiom (5) gives us the definition of _____.
- 30) From two distinct point as least _____ straight line can pass through it.
- 31) A terminated (segment) line can be produced _____.
- 32) A circle can be drawn with any _____ and any _____.
- 33) All right angles are _____ to one another.
- 34) The statements that were proved are called _____.
- 35) Euclid deduced _____ propositions in a logical chain.
- 36) Euclid's _____ postulate is very significant in the history of mathematics.
- 37) Two distinct intersecting lines cannot be _____ to the same line.

ANSWERS

- 1) Geo and meterian
- 2) Earth
- 3) to measure
- 4) measuring land
- 5) truncated pyramid
- 6)



- 7) 4:2:1
- 8) sulbasutras
- 9) altars and fire places
- 10) square and circular
- 11) rectangle, triangle and trapeziums
- 12) nine and isosceles
- 13) Thales
- 14) Pythagorean
- 15) Euclid
- 16) Elements
- 17) Thirteen
- 18) shape, size
- 19) Surfaces
- 20) curves or straight line
- 21) Three
- 22) two
- 23) One
- 24) none
- 25) points
- 26) length
- 27) lines
- 28) length and breadth
- 29) 'greater than'
- 30) one straight line
- 31) indefinitely
- 32) center and radius
- 33) equal
- 34) propositions or theorems
- 35) 465
- 36) fifth
- 37) parallel