

Mathematics (TNTET Model Question)

- The number of rational numbers between any two rational numbers
a) 1 b) finite c) 0 d) infinite
- A car covers a distance of 129.92 km in 3.2 hours. What is the distance covered by it in one hour?
a) 4.06km b) 35.7km c) 18.6 km d) 42.1km
- The degree of constant in an algebraic expression is
a) 1 b) -1 c) 0 d) $\frac{1}{2}$
- The degree of the expression $m^2n^2 + 3mn + 8$ is
a) 2 b) 4 c) 1 d) 3
- In Greek the word 'Geometry' means
a) Space b) Architecture c). Geometrical shape d). Earth measurement
- A ray has
a) no end points b) starting point & no end point
c) starting point and points d) magnitude
- A circle has
a) two lines of symmetry b) no lines of symmetry
c) many lines of symmetry d) four lines of symmetry
- A regular pentagon has
a) 3 lines of symmetry b) 4 lines of symmetry
c) 5 lines of symmetry d) 6 lines of symmetry
- Angle of rotation of an equilateral triangle is
a) 120° b) 60° c) 180° d) 90°
- The complement of 60° is
a) 120° b) 300° c) 210° d) 30°
- The supplement of 60° is
a) 120° b) 300° c) 210° d) 30°
- The sum of the adjacent angles on a line is
a) 180° b) 90° c) 40° d) 360°
- Statistics is derived from
a) Greek word b) Latin word c). Sanskrit word d) Arabic word

14. The difference between highest value and lowest value of data is
 a) mean b) Range c) mode d). class internal
15. The number of times a particular value repeats itself is called its
 a) mode b) frequency c). class internal d) range
16. In a proportion the product of extremes is equal to
 a) product of means b) addition of means c) subtraction of means
 d) division of means
17. Golden ratio is a special number approximately equal to
 a) $22/7$ b) 3.14 c). 1.6180 d) 3.24
18. In a rhombus
 a) the diagonals bisect each other at right angles b). opposite angles are equal
 c) opposite side are equal d). opposite sides are not equal
19. If a transversal intersect two lines the number of angles formed are
 a) 4 b) 8 c) 6 d) 12
20. When two parallel lines are cut by transversal the sum of the interior angles on the same side of transversal
 a) 90° b) 180° c). 270° d). 360°
21. If a transversal intersect any two lines the two lines are
 a) are parallel b) are not parallel c) may or may not be parallel
 d) are perpendicular
22. Area of parallelogram
 a) bh sq.unit b) $\frac{1}{2} d (h_1 + h_2)$ sq.unit
 c) $\frac{1}{2} \times b \times h$ sq.unit c) $\frac{1}{2} \times d_1 \times d_2$ sq.unit
23. Area of rhombus
 a) $\frac{1}{2} \times d_1 \times d_2$ sq.unit b) $\frac{1}{2} d \times (h_1 + h_2)$ sq.unit
 c) $\frac{1}{2} \times b \times h$ sq.unit d) bh sq.unit
24. A rhombus is a
 a) square b). rectangle c). not rectangle d0. not a square
25. If the cost of 8 kgs of rice is Rs.160 then the cost of 18 kgs of rice is
 a) Rs. 480 b). Rs 180 c) Rs. 360 d) Rs. 1280
26. The mean of the first five whole number is
 a) 2 b) 5 c) 3 d) 4

27. The mode of the data 2, 2, 2, 3, 3, 4, 5,5,5,6,6,8, is
a) 2 b) 5 c) 8 d) 2 & 5 Both
28. Median of the data 13, 16, 12, 14, 19, 12, 14, 13, 14, is
a) 14 b) 19 c) 12 d) 13
29. The distance around a circular region is known as its
a) area b) diameter of circle c) circumference d) radius
30. What will be the area of circular button of radius 7 cm
a) 154cm^2 b) 49cm^2 c) 154cm d) $3.14 \times 7\text{cm}^2$
31. The area of a circle is
a) $2\pi r$ b) $2\pi r^2$ c) πr^2 d) πd
32. $1/10$ of a number is 63 what is the number
a) 720 b) 620 c) 610 d) 630
33. A number divided by 4 and increased by 6 give 10. Find the number
a) 16 b) 15 c) 18 d) 20
34. Sanjay bought a bicycle for Rs. 5000 He sold it for Rs. 600 less after two years. Find the loss percentage
a) 11 % b) 12% c) 13% d) 14%
35. Ram the shopkeeper bought a pen for Rs, 50 and then sold it at a loss of Rs.5 Find his selling price
a) Rs.45 b) Rs. 35 c) Rs. 46 d) Rs.48
36. Radhika invested Rs. 5000 for two years at 11% per annum. Find the simple interest and the amount received by him at the end of two years
a) Rs. 5100 b) Rs.6500 c) Rs. 6100 d) Rs. 5100
37. A Sum of money triples itself at 8% per annum over a certain time. Find the number of years
a) 25 b) 26 c) 15 d) 24
38. The length of the two parallel sides of a trapezium are 15cm and 10 cm. If its area is 100sq.cm . Find the distance between the parallel sides
a) 7cm b) 6cm c) 8cm d) 5 cm
39. The dia meter of a bicycle wheel is 63 cm. How much distance will it cover in 20 revolution
a) 36m 60 cm b) 39m 60 cm c) 39m 50 cm d) 40m 50cm

40. The scooter wheel makes 50 revolutions to cover a distance of 8800 cm. Find the radius of the wheel
- a) 26cm b) 27cm c) 29cm d) 28cm
41. The cost of fencing a circular park at the rate of Rs.5 per metre's Rs.1100. What is the radius of the park
- a) 35m b) 36m c) 34m d) 37m
42. The circumference of a circular park is 176m. Find the area of the park
- a) 2464 sq.m b) 2364 sq.m c) 2465 sq.m d) 2868 sq.m
43. What is the ratio of 40 minutes to 1 hour ?
- a) 3:2 b) 2:3 c) 1:2 d) 2:1
44. Kumaran has Rs. 600 and wants to divide it between Vimala and Kamala in the ratio 2:3. Who will get more
- a). kumaran b). Kamala c). Vimala d) Both b & c
45. A heater uses 3 units of electricity in 40 minutes. How many units does it consume in 2 hours
- a)8 b)10 c)7 d)9
46. Order of the term in a ratio
- a). can be reversed b). can be equivalent c). can't be reversed
d). can't be equivalent
47. Geometry means the measurement of
- a) Land b) Shapes c) Earth d) Graphs
48. Which direction will you face if you start facing west & take three right turns clockwise?
- a) North b) East c) West d) South
49. Reflex angles are
- a) $> 90^\circ$ b) $> 180^\circ$ c) $< 180^\circ$ d) $< 90^\circ$
50. Who found the plan geometry
- a) Euclid b) Pythagoras c) Thalass d) Hypatia

Answer Key

1	d	2	a	3	c	4	b	5	d
6	b	7	c	8	c	9	a	10	d
11	a	12	a	13	b	14	b	15	b
16	a	17	c	18	a	19	b	20	b
21	c	22	a	23	a	24	d	25	c
26	a	27	d	28	a	29	c	30	a
31	c	32	d	33	a	34	b	35	a
36	c	37	a	38	c	39	b	40	d
41	a	42	a	43	b	44	b	45	d
46	c	47	c	48	d	49	b	50	a