

KENDRIYA VIDYALAYA SANGATHAN
LEARNING ASSESSMENT TEST (LAT)
MATHEMATICS(VII-Entry Level)
Session 2017-18

NAME: _____

CLASS & SECTION: _____

ROLL No: _____

Max marks : 60

Duration : 120 minutes

Instructions:

1. All the questions are compulsory. Each question carries 1 mark.
2. All the questions are of multiple choice type having 3 or more options given as (a), (b), (c) and (d) . Out of these only one is the correct answer. Give the correct answer in the box given as (a)or (b) or (c) or (d).
3. Calculators are not allowed.
4. Space is provided at the bottom of each page for rough work.

1. The whole numbers consists of -
(a) 1,2,3,4,5.....
(b) 0,1,2,3,4.....
(c)-3,-2,-1,0,1,2,3..... []

2. Rounding off 4562 to nearest thousand
(a) 5000
(b) 4570
(c) 4600 []

3. If a number is divisible by 4 and 6, then the number is divisible by
(a) 10
(b) 64
(c) 12 []

4. A polygon of 5 sides is called
(a) Hexagon (b) Pentagon (c) Octagon []

5. The triangle having angles of measures 30° , 50° and 100° is an -
(a) Acute triangle.
(b) Obtuse triangle
(c) Right triangle. []

6. Sum of two negative integers is always -

- (a) Positive.
- (b) Negative.
- (c) Zero.

[]

7. Correct symbol in the box $\frac{4}{9}$ \square $\frac{4}{7}$ is

- (a) <
- (b) =
- (c) >

[]

8. To provide place for decimals Place value chart is extended on

- (a) Right side.
- (b) Left side.
- (c) Both sides.

[]

9. The perimeter of a rectangle of length 7.5 m. and breadth 2.5m.

- (a) 18.75m
- (b) 10m
- (c) 20m

[]

10. The ratio of 50 paise to Rs. 2 is

- (a) 1:3
- (b) 1:4
- (c) 5:2

[]

11. The Roman numeral of 69 is

- (a) XCIX
- (b) VIIX
- (c) LXIX
- (d) LXIV

[]

12. The predecessor of 10100 is

- (a) 19999
- (b) 10099
- (c) 19019
- (d) 99099

[]

13. The prime factorization of 120 is

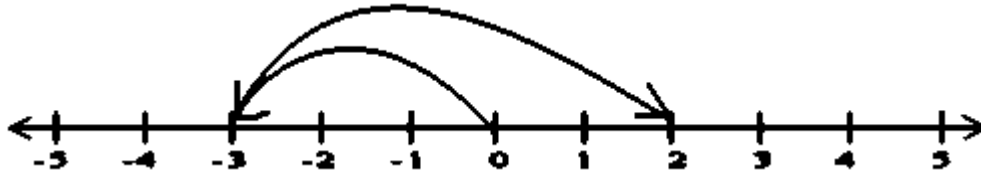
- (a) $120 = 4 \times 5 \times 6$
- (b) $120 = 2 \times 2 \times 2 \times 3 \times 5$
- (c) $120 = 2 \times 2 \times 3 \times 10$
- (d) $120 = 2 \times 3 \times 20$

[]

14. The number of faces in a square pyramid is-

- (a) 3 (b) 4 (c) 6 (d) 5 []

15. Mathematical statement representing the following figure:



- (a) $(-2) + 5 = 2$ (b) $(-2) + 5 = 3$
(c) $(-3) + 5 = 2$ (d) $(-2) + 3 = 5$ []

16. $2\frac{1}{5} + \frac{3}{5}$ equal to

- (a) $2\frac{4}{5}$ (b) $5\frac{1}{5}$ (c) $2\frac{3}{5}$ (d) $5\frac{4}{5}$ []

17. The decimal representation of the fraction $\frac{2}{10}$ is

- (a) 2.0 (b) 0.2 (c) 20.0 (d) 2.10 []

18. If  represents 10 students, then  represent

- (a) 50 students (b) 45 students (c) 500 students (d) 450 students []

19. The perimeter of a triangle is 40 cm. Two of its sides are 12 cm. and 15 cm.
The third side is

- (a) 17 cm. (b) 27 cm. (c) 23 cm. (d) 13cm. []

20. ‘Six times of y added to 5’ is written as

- (a) $6y + 5$ (b) $6y - 5$ (c) $6 - 5y$ (d) $6 + 5y$ []

21. Which of the following numbers is divisible by 11

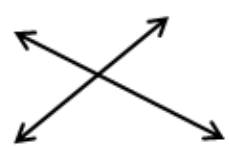
- (a) 54450 (b) 15432
(c) 70493 (d) 84583 []

22. Which of the following pairs of Prime numbers is Twin prime
 (a) 2,3 (b) 3,5
 (c) 7,1 (d) 19,23 []
23. Which of the following angles cannot be constructed by using ruler and compass.
 (a) 45° (b) 78°
 (c) 120° (d) 150° []
24. Reflex angle is
 (a) an angle measuring between 90° to 180°
 (b) an angle measuring between 0° to 90°
 (c) an angle measuring between 180° to 360°
 (d) an angle measuring 360° []
25. Mixed fraction is
 (a) a fraction which is a combination of a whole and a part
 (b) a fraction in which the denominator is more than the numerator
 (c) a fraction with its numerator as 1.
 (d) None of the above. []
26. A child is standing facing towards East .If he turns 3 right angles clockwise.The direction he is facing now will be-
 (a)Towards West .
 (b) Towards North.
 (c) Towards South.
 (d)Towards East. []
27. Bar graph is
 (a) a representation of data in pictures.
 (b) a representation of data in tabular form.
 (c) a representation of data as curve.
 (d) a representation of data with the help of bars of equal width and with space in between. []
28. The Year 2012 was celebrated as National year of Mathematics on the Occasion of 125th birth anniversary of an Indian mathematician
 (a) Aryabhata. (b) Brahmgupta.
 (c) Mahavira. (d) Ramanujan. []

29. A piece of string is 36cm .The length of each side of a regular Hexagon formed by the string is-
 (a) 4cm (b) 9cm.
 (c) 6cm (d) 12 cm. []

30. The area of a rectangular garden 50m long is 300 sqm.The width of the Garden is-
 (a) 6 m.
 (b) 12 m.
 (c) 50m.
 (d) 30 m . []

31. The lines in the following figure are



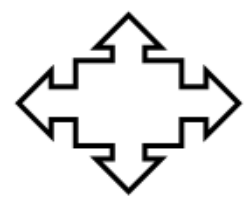
(a) parallel lines (b) horizontal lines
 (c) intersecting lines (d) vertical lines []

32. A prime number
 (a) has exactly one factor (b) has more than two factors
 (c) has exactly two factors (d) has exactly three factors []
 1 and itself

33. If a child measures the length of a line segment AB,by putting point A At 1.4cm of rular and point B falls at 3.9cm.The correct length of AB will be
 (a) 1.4cm. (b) 3.9cm (c) 2.5cm (d) 5.3cm. []

34. A rhombus with four right angles is a-
 (a) Parallelogram (b) Square (c) Rectangle. (d) None of the above. []

35. The following figure



- (a) has no lines of symmetry. (b) has one lines of symmetry
 (c) has two lines of symmetry (d) has three lines of symmetry []

36. The smallest 5- digit number containing 2,0,1,7 and 5 is

- (a) 20175 (b) 10257 (c) 10527 (d) 10725 []

37. State the property used in the statement: $(29 \times 36) \times 18 = 29 \times (36 \times 18)$

- (a) Associative property of multiplication
 (b) Commutative property of multiplication
 (c) Distributive property of multiplication
 (d) None of the above. []

38. The HCF of 54 and 63 is

- (a) 7 (b) 9 (c) 6 (d) 12 []

39. The least number, which when divided by 12 and 16 leaves a remainder 7
 Is-

- (a) 48 (b) 56 (c) 55 (d) 54 []

40. Which of the following is a scalene triangle?

- (a) ΔABC in which $AB = 7\text{cm}$, $BC = 7\text{ cm}$. and $CA = 7\text{ cm}$.
 (b) ΔXYZ in which $XY = 5\text{ cm}$, $YZ = 5\text{ cm}$. and $XZ = 6\text{ cm}$.
 (c) ΔPQR in which $PQ = 6\text{ cm}$, $QR = 7\text{ cm}$. and $PR = 8\text{ cm}$.
 (d) none of above. []

41. -5 subtracted from -8 is _____.

- (a) $+ 3$ (b) -13 (c) $+ 13$ (d) $- 3$ []

42. $\frac{37}{12} = \text{---}$

- (a) $3\frac{3}{12}$ (b) $3\frac{1}{3}$ (c) $3\frac{1}{12}$ (d) $\frac{12}{37}$ []

43. $18.6 + 2.03 - 0.702$ is equal to

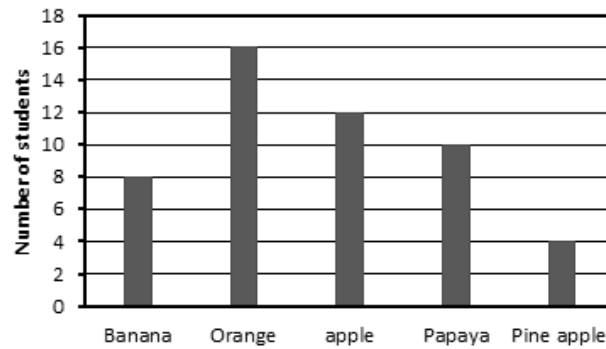
- (a) 19.928 (b) 10.908 (c) 21.332 (d) 20.632 []

44. $2x + 5 = 3$ means

- (a) 3 more than twice of x is 5
- (b) 5 more than twice of x is 3
- (c) 3 more than thrice of x is 5
- (d) 5 more than x is 3

[]

The following graph gives information about the favourite fruit of 50 students of a class. Observe the graph and answer the questions 45 and 46.



45. The difference between the number of students who like oranges and pine apple?

- (a) 16
- (b) 8
- (c) 4
- (d) 12

[]

46. Number of student s who like apples most are-

- (a) 10
- (b) 11
- (c) 12
- (d) 16

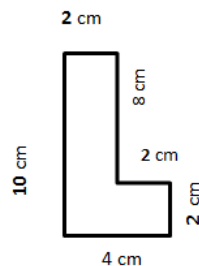
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47. If $2 : 3 :: 4 : x$, then x is

- (a) 1.5
- (b) 6
- (c) 3
- (d) $\frac{8}{3}$

[]

48. The area of the figure is

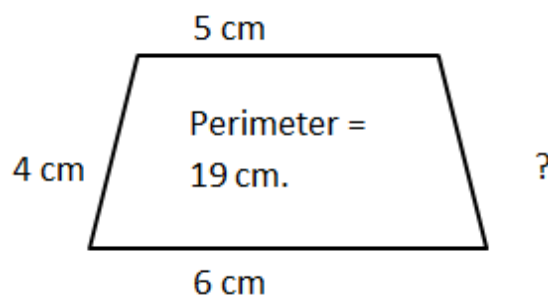


- (a) 20 cm^2
- (b) 4 cm^2
- (c) 24 cm^2
- (d) 28 cm^2

[]

49. The sides of two squares are 10 cm and 5cm. respectively. What is the ratio of their areas?
 (a) 10:5 (b) 4:1 (c) 2:3 (d) 4:5 []
50. Two lines are said to be perpendicular to each other when they intersect at _____
 (a) 180° (b) 90° (c) 60° (d) 110° []
51. The difference between the place values of 5 and 3 in 50360 is
 (a) 50000 (b) 300 (c) 50300 (d) 49700 []
52. A boy starts his journey by train from Delhi at 7:45a.m and reaches Mumbai At 9:30 a.m next day.The time taken byhim to reach Mumbai is
 (a) 13hrs45min (b) 25hrs45min (c) 13hrs30min (d) 25hrs30min []
53. Rope A is 64 m. Rope B is 36m. The maximum length of the tape that can measure both the ropes in exact number of times is
 (a) 8m (b) 6 m. (c) 4 m. (d) 2m. []
54. The value of $(-2) + 8 + (-4)$ is
 (a) 14 (b) 12 (c) 2 (d) -2 []
55. The cost of 12 balls is Rs.84. The cost of 8 such balls is
 (a) Rs.54 (b) Rs. 55 (c) Rs.56 (d) Rs.57 []

56. The missing length of the following figure is



- (a) 1 cm. (b) 2 cm. (c) 3 cm. (d) 4 cm. []

57. Seven times a number 't' is 42. Then the value of 't' is

- (a) 5 (b) 6 (c) 8 (d) 7 []

58. One Kilometer is

- (a) 10000 cm. (b) 100 m. (c) 100000 cm. (d) None of these. []

59. Rani has $\frac{9}{5}$ m. of ribbon. She gave $\frac{5}{4}$ m. to her friend. The length of ribbon left with her is

- (a) $\frac{25}{20}$ m. (b) $\frac{11}{20}$ m (c) $\frac{13}{20}$ m (d) $\frac{17}{20}$ m []

60. Which of the following will not represent 0 ?

- (a) $1 + 0$ (b) 0×0 (c) $\frac{0}{7}$ (d) $\frac{10-10}{7}$
