CLASS - VI

01. The smallest number that has to be added to 2796342 so that it becomes exactly divisible by 11 is ...
    1) 4 2) 3 3) 2 4) 1

02. 123456789 x 8 + 9 = ...
    1) 987564321 2) 987645321
    3) 987654312 4) 987654321

03. a, b are two positive numbers and *a.b = L.C.M.* of *a* and *b* then *a, b* are
    1) Primes 2) Co-primes
    3) Composite numbers 4) Only one is prime

04. The unit digit in the sum $9^{2015} + 6^{1026} + 5^{25}$ is .....
    1) 0 2) 2 3) 4 4) 5

05. The cost of rice is Rs. 48 per kg. A shop keeper sells 120 bags per day. If each bag contains 25kgs, How much money he gets at the end of 3 days.
    1) Rs. 431800 2) Rs. 431900 3) Rs. 432000 4) Rs.432100

06 $1-[1-\{1-\overline{1-1}\}] = ...$
    1) 1 2) 0 3) -1 4) none

07. a= 3^{3^3} and b= $(3^3)^3$. then the correct statement is ...
    1) a = b 2) a > b 3) a < b 4) Can't say

08 If $\frac{x}{y}=\frac{1}{3}$ then $\frac{x^2+y^2}{x^2-y^2} = ...$
    1) $\frac{-10}{9}$ 2) $\frac{5}{4}$ 3) $\frac{-5}{4}$ 4) $\frac{10}{9}$

09. A total of 324 coins of 50 paise and Rs.1 make a sum of Rs 224. The number of 50 paise coins is ....
    1) 124 2) 200 3) 224 4) 448

10. If $\left(1-\frac{1}{2}\right)\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right).....\left(1-\frac{1}{n}\right)=.....$

1) $\frac{1}{n}$ 2) $\frac{1}{n-1}$ 3) $\frac{n}{n-1}$ 4) none of these

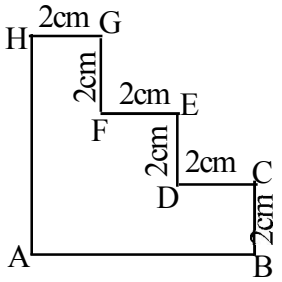
11. Temperature of three cities A,B and C on a day 2^0 , -15^0 and 8^0 respec - tively. Then the correct statement is .....

1) A<B>C 2) B > C < A 3) A < B < C 4) B < A < C

12. Which of the following is a triangular number .....

1) 12 2) 16 3) 8 4) 10

13. Perimeter of the given figure is ..... cm.



1) 12 2) 24
3) 6 4) Data inadequate

14. If $2^x \times 8^{\frac{1}{5}} = 2^{\frac{1}{5}}$ then x = ...

1) 1/5 2) -1/5 3) 2/5 4) -2/5

15. Demlo numbers and self numbers are generated by .....

1) Euclid 2) D.R.Kaprekar
3) Srinivasa Ramanujan 4) Sakuntala Devi

16. On multiplying a number by 7, all the digits in the product appear as 3's. The smallest such number is ..

1) 47619 2) 47719 3) 48619 4) 47649

17. A sum of Rs 312 was divided among 60 boys and some girls in such a way that each boy gets Rs.3.60 and each girls Rs. 2.40. The number of girls is .....

1) 35 2) 40 3) 60 4) 65

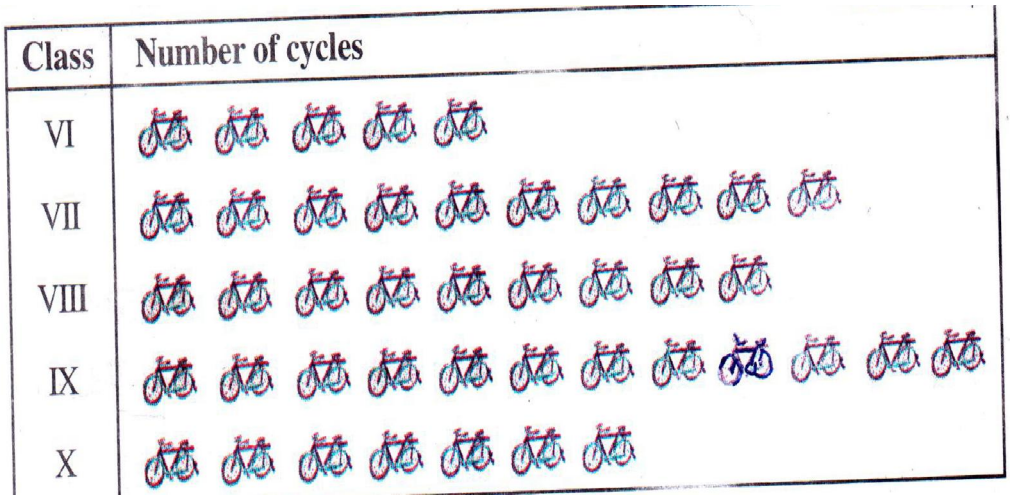
18. In the year 2012, Sairam got Rs. 2305.80 as his pocket allowance. His pocket allowance per day is..

1) Rs 6.30 2) Rs. 6.31 3) Rs.6.32 4) Rs. 6.29

19. The descending order of the numbers $\frac{3}{5}, \frac{4}{7}, \frac{8}{9}, \frac{9}{11}, \frac{13}{15}$

1) $\frac{3}{5} > \frac{4}{7} > \frac{8}{9} > \frac{9}{11} > \frac{13}{15}$ 2) $\frac{3}{5} < \frac{4}{7} < \frac{8}{9} < \frac{9}{11} < \frac{13}{15}$

3) $\frac{8}{9} < \frac{13}{15} < \frac{9}{11} < \frac{3}{5} < \frac{4}{7}$ 4) $\frac{8}{9} > \frac{13}{15} > \frac{9}{11} > \frac{3}{5} > \frac{4}{7}$



The above picture shows the number of student cycles in 5 classes.
One cycle picture = 5 cycles

20. How many more cycles IX class students have than VI class students?
1) 7 2) 17 3) 21 4) 35

21. The class which has 25 cycles.
1) VIII 2) X 3) VII 4) VI

22. Total number of cycles .....
1) 215 2) 43 3) 105 4) 220

23. From the number 821.128 the total of two times of hundred place digit and three times of hundredth place digit is...
1) 16 2) 22 3) 32 4) 10

24. Which fraction lies between $\frac{2}{5}$ and $\frac{2}{3}$ is ....

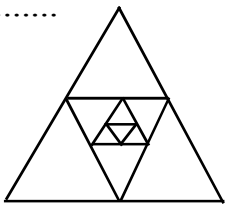
1) $\frac{2}{7}$ 2) $\frac{1}{5}$ 3) $\frac{1}{15}$ 4) $\frac{31}{50}$

25. Distance from house to school is 10 km. Ravi started at house and travelled 5km 290m by bus,2km 40m by cycle and the remaining by walk. Distance covered by walk is .....
    1) 2670m 2) 2 km 67m 3) 26km 70m 4)3670m

26. The difference between the greatest and the least four digit number using digits 4, 0, 3, 1.....
    1) 3267 2) 3376 3) 2970 4) 3276

27. The shop keeper sold a T.V. for Rs. 10,190 instead of Rs. 11,090 the loss he got is.....
    1) 900 2) 90 3) 901 4) 1090

28. How many parallelograms you can find in the figure .....
    1) 12 2) 4
    3) 6 4) 9



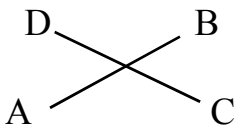
29. (-2) - (-3) + 5 -(1 - 7) = ...
    1) 12 2) 6 3) -5 4) 16

30. A thief escaped on a bike with speed 45 kmph. After 2 hours police noticed this and chased him on a Jeep with 60kmph speed. The least distance in km the police can catch the thief?
    1) 180 2) 360 3) 540 4) 720

31. The period of Euclid is .....
    1) 365 BC 2) 356 BC 3) 365 AC 4) 356 AC

32. Exact length of a line segment is measured by
    1) Scale 2) Protractor 3) Divider 4) Compass

33. How many common points do you find in the figure.
    1) 1 2) 2
    3) 3 4) 4



34. 2040030 cm = ... km ..... m ..... cm.
    1) 2 - 400 - 30 2) 20 - 40 - 30 3) 20 - 400 - 3 4) 20 - 400 - 30

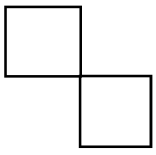
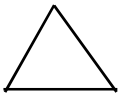
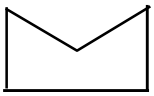
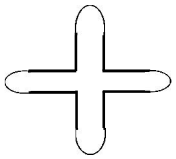
35 By taking number line the truth statement is .....
1) -7 is on the rigth side of -6
2) Zero is to the left of -1
3) 2 is on the right of -2
4) -1 is an integer which lies between 0 and 1

36. A cup of tea required 125ml. of milk. The number of cups of tea prepared with 15 litres of milk.
1) 120 2) 125 3) 130 4) 200

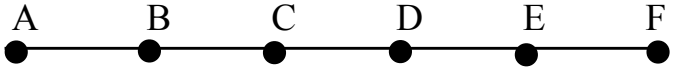
37. The first Indian elected for the fellowship of "Royal Society".
1) C.V. Raman 2) Sakuntala Devi
3) C.R.Rao 4) Srinivasa Ramanujan

38. Which operation does not follow commutative property ...
1) + 2) x 3) = 4) ÷

39. Which property is useful for easy multiplication of 857 x 203.
1) Closure 2) Associative 3) Distributive 4) Commutative

40. Which of the following is an open curve .....
1)  2)  3)  4) 

41. How many line segments do you find in the figure...



1) 15 2) 12 3) 1 4) 5

42. The reflex angle is .....
1) 75^0 2) 96^0 3) 180^0 4) 182^0

43. If (abcd) = (abc)(bd) then b = ...
1) 1 2) 0 3) 1 and 0 4) 1 or 0

44. Presntly father's age is 5 times his son's age. Four years ago father's age is 9 times his son's age. Son's present age is ..... years.
1) 8 2) 9 3) 6 4) 7

45. If $\frac{4^9+4^9+4^9+4^9}{2^9+2^9}=2^x$ then x = ...
1) 18 2) 10 3) 36 4) 2

46. If a two digit number ab is a prime then ba is also a prime. Number of such pairs of primes below 100 is .....
1) 4 2) 6 3) 3 4) 9

47. The angle made by a minute hand of a clock from 7.00 pm to 7.21pm is
1) 96^0 2) 126^0 3) 216^0 4) 21

48. If 4! = 4 x 3 x 2 x 1 then the units place in the expansion of x! (if x>5) is
1) 0 2) 2 3) 4 4) 9

49. LCM of two numbers 'a' and 'b' is 'x' then their HCF = ...
1) $\frac{a.x}{b}$ 2) $\frac{b.x}{a}$ 3) $\frac{x}{a.b}$ 4) $\frac{a.b}{x}$

50. In a code language 10x2=12; $12\div3=9$; 15-5=3 and 7+2=14 then $(18\div9)-[(9+3)\div(10x14)]$ = ...
1) 2.5 2) 1.5 3) 5 4) 3

51. Multiplicative identity is divided by additive identity in integers is .....
1) Even number 2) Odd number 3) 0 4) not defined

52. The sum of all odd numbers below 31
1) 225 2) 124 3) 186 4) 248

53. At a pond there are some ducks. Half of them are swimming in the pond, one third are eating on the bank and remaining four are sleeping. Then number of ducks at the pond is .....
1) 16 2) 36 3) 12 4) 24

54. Next number in the series 0, 6, 24, 60, 120, 210, ...is ...
    1) 240 2) 336 3) 420 4) 346

55. In a code language FIRST = HGTQV, PRIDE = RPKBG then SHORT = ...
    1) UFQPV 2) UGPQU 3) UINSS 4) UEROW

56. The shape of small set square in your geometry box is ..... triangle.
    1) Right angled 2) Isosceles 3) both 1 and 2 4) Scalene

57. The book " The Elements" was written by ....
    1) Euclid 2) D.R.Kaprekar
    3) Srinivasa Ramanujan 4) Sakuntala Devi

58. A person started from a point A towards east 0.5km and reach B, then he move towards south 500m and reaches C. The angle between AB and AC is .....
    1) 30^0 2) 45^0 3) 60^0 4) 90^0

59. 1/8 th part of an angle in one full rotation is .....
    1) 60^0 2) 90^0 3) 22.5^0 4) 45^0

60. When a ray OB moves with ray OA in clock wise direction the angle formed is .....
    1) Negative 2) Positive
    3) Both 1 and 2 4) 1 or 2