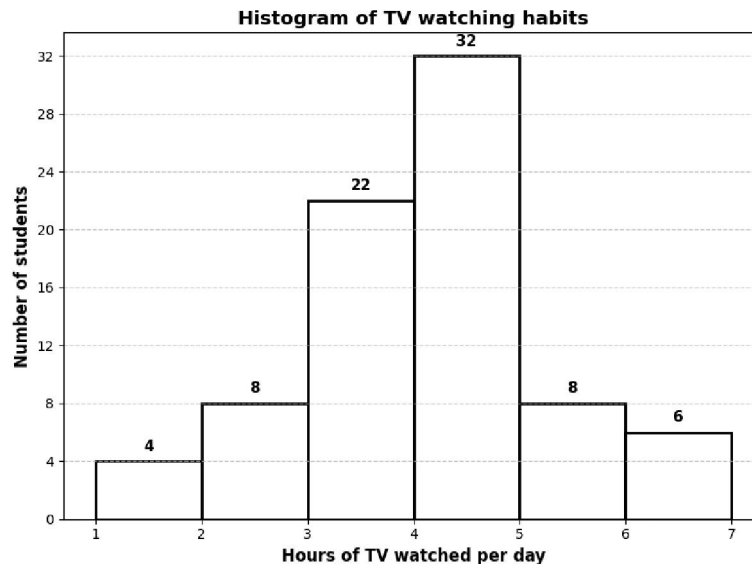


CLASS - VIII

- 1) If $x + y = 1$ then largest value of $xy =$ _____
 1) $1/2$ 2) $1/4$ 3) $3/4$ 4) 1
- 2) The product of $7/9$ and the multiplicative inverse of $343/243$ is _____
 1) $27/49$ 2) $25/46$ 3) $32/51$ 4) $13/28$
- 3) If $5 * 7 = -23$, $3 * 5 = -7$ then $7 * 3 =$
 1) -11 2) -9 3) -12 4) 3
- 4) Regular polygon among these.....
 1) Rhombus 2) Rectangle 3) Parallelogram 4) Square
- 5) In a regular polygon if an interior angle is four times its exterior angle, then the number of sides in it.....
 1) 6 2) 8 3) 10 4) 9
- 6) 8th Triangular number is
 1) 26 2) 28 3) 36 4) 38
- 7) A man crossed a square plot through its diagonal with a speed of 4 kmph in 3 minutes. Then area of the plot is _____ Sq. mts
 1) 80000 2) 60000 3) 40000 4) 20000
- 8) If the equations $9x + 4y = 9$ and $7x + ky = 5$ have no solution then $k =$
 1) $9/28$ 2) $19/9$ 3) $21/9$ 4) $28/9$
- 9) A purchased a T.V for Rs. 15000. A sold it to B with a loss of 10% ; B sold it to C with a profit of 10% . C purchased T.V for Rs. _____
 1) 15000 2) 14850 3) 12150 4) 18150
- 10) Periodicity of $981.\overline{7836}$ is
 1) 836 2) 8 3) 6 4) 3
- 11) The number of zeros at the end of a perfect square is always in _____ number
 1) odd 2) even 3) prime 4) composit
- 12) The sum of first n odd natural numbers is _____
 1) n^2 2) $(n + 1)^2$ 3) $(n - 1)^2$ 4) $n^2 + 1$

- 13) If $a + \frac{1}{a} = 2$ then $a^4 + \frac{1}{a^4} =$
 1) 16 2) 8 3) 14 4) 2
- 14) The number of digits in the square root of 27225 is ____
 1) 2 2) 3 3) 5 4) 7
- 15) The selling price of 12 articles is equal to cost price of 15 articles. Then gain ..%
 1) $20/3$ 2) $35/4$ 3) 25 4) 30
- 16) $9 + \sqrt[3]{-125} =$ ____
 1) 14 2) 4 3) -14 4) -16
- 17) The odd one among the series 2 , 3, 7, 16, 32, 56, 93, 142
 1) 32 2) 56 3) 93 4) 142
- 18) In $\triangle ABC$, $AB = 7$ cm, $AC = 5$ cm, $\angle B = 30^\circ$ the triangle formed is __triangle
 1) Scalene 2) Isosceles 3) Right 4) ambiguous

Following the bar diagram, answer questions (19 - 21)



- 19) Percentage of students who watched T.V more than 5 hours
 1) 14 2) 35 3) 17.5 4) 35.5
- 20) Percentage of students who watched T.V less than 3 hours
 1) 12 2) 15 3) 12.5 4) 34
- 21) Maximum number of students who watched T.V
 1) 32 2) 22 3) 54 4) 80

- 22) From the letters of the word "Mobile" a letter is selected. The probability that the letter is a vowel is _____
 1) $1/3$ 2) $3/7$ 3) $1/6$ 4) $1/2$
- 23) The volume of a cube is 1728 cm^3 , then area of a face is _____ cm^2
 1) 142 2) 196 3) 144 4) 256
- 24) Ravi purchased a toy for Rs. 32 by getting a discount of 20% cost price of toy is Rs. _____
 1) 52 2) 38.40 3) 36 4) 40
- 25) If $(1 - x)(1 + x + x^2 + x^3 + x^4) = 31/32$ and x is a rational number then $1 + x + x^2 + x^3 + x^4 + x^5 = \dots$
 1) $31/64$ 2) $31/32$ 3) $63/64$ 4) $63/32$
- 26) If $w + \frac{1}{x + \frac{1}{y}} = \frac{97}{19}$ then $x - (y + w) = \dots$
 1) -2 2) 2 3) 12 4) 6
- 27) The value of k for the following system of linear equations has an infinite number of solutions $x + (k+1)y = 5$, $(k+1)x + 9y = 8k - 1$ is
 1) 9 2) 2 3) $\neq 8$ 4) $\neq -10$
- 28) The decimal form of $87/32$ is
 1) 2.7125 2) 2.18725 3) 2.71875 4) 2.77815
- 29) On dividing the sum of $-8/7$ and $5/14$ by their product, the answer is
 1) $70/47$ 2) $77/40$ 3) $40/77$ 4) $-77/40$
- 30) $2x - \{5y - (x - 2y)\} = \dots$
 1) $3x - 7y$ 2) $7y - 3x$ 3) $3x + 7y$ 4) $x - 7y$
- 31) For every natural number n , $(n+1)^2 - n^2 = \dots$
 1) $(n+1) + n$ 2) $(n-1) + n$ 3) $(n+1) - n$ 4) $(n-1) - n$
- 32) The least number which must be subtracted from 825 so as to get a perfect square is
 1) 28 2) 36 3) 41 4) 44
- 33) Which of the following is not a perfect cube?
 1) 2197 2) 512 3) 2916 4) 343

34) The smallest number by which when multiplied by 675 the product is a perfect cube is

- 1) 3 2) 5 3) 7 4) 9

35) If $\sqrt[3]{\frac{x}{y}} = \frac{8}{13}$, then $x - y =$

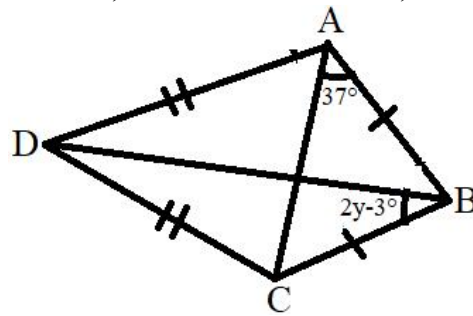
- 1) 1685 2) -1685 3) 512 4) 2197

36) The number of dots that can be shown in triangle and rectangle form :

- 1) 16 2) 15 3) 20 4) 28

37) In the given kite $y =$

- 1) 37° 2) 28°
3) 20° 4) 40°



38) a, b, c are three natural numbers. Exactly two of them are odd. Then the correct statement is

- 1) $a + b + c + ab + bc + ca$ is odd 2) $ab + bc + ca$ is even
3) abc is odd 4) $a + b + c$ is odd

39) The number which should be added to Ramanujan number to get Kaprekar's Constant.

- 1) 4444 2) 4447 3) 4446 4) 4445

40) If $3a + 2b + 4c = 40$, $b + c = 8$, $c = 6$ then $a =$

- 1) 2 2) 4 3) 6 4) 12

41) The product of three consecutive numbers is 336. The smallest number is

- 1) 6 2) 8 3) 4 4) 12

42) Match the following

I		II	
A	Twice a number is added by 3 to get 15	p	$2x = 3x - 45$
B	sum of 3 consecutive odd numbers is 15	q	$2x + 3 = 5$
C	$2/3$ of a number is 15 less than original number	r	$2y + 3 = 15$

- 1) $A \rightarrow q, B \rightarrow p, C \rightarrow r$ 2) $A \rightarrow r, B \rightarrow q, C \rightarrow p$
 3) $A \rightarrow p, B \rightarrow q, C \rightarrow r$ 4) $A \rightarrow p, B \rightarrow r, C \rightarrow q$

43) Two numbers are in the ratio 5 : 3. If their difference is 18, the smaller number is

- 1) 45 2) 36 3) 27 4) 18

44) Two natural numbers differ by 41. The bigger number is greater than 30 times the smaller number plus 10. The smaller number is

- 1) 11 2) 2007 3) 71 4) 1

45) The average of three numbers $\frac{n}{2}, \frac{-3n}{4}, \frac{5n}{6}$ is 7, then $n = \dots\dots$

- 1) 36 2) 27 3) 72 4) 18

46) The set which contain multiplicative inverse

- 1) N 2) W 3) Q 4) $Q - \{0\}$

47) $(x - 1)(x + 1)(x^2 + 1) = 15$ then $x = \dots\dots$

- 1) 4 2) 5 3) 8 4) 2

48) The product of two numbers is 1296. If one number is 16 times the other, then the numbers are

- 1) 5, 80 2) 144, 9 3) 11, 176 4) 48, 3

49) The Cube root of 1.331

- 1) 0.011 2) 0.11 3) 1.1 4) 1.2

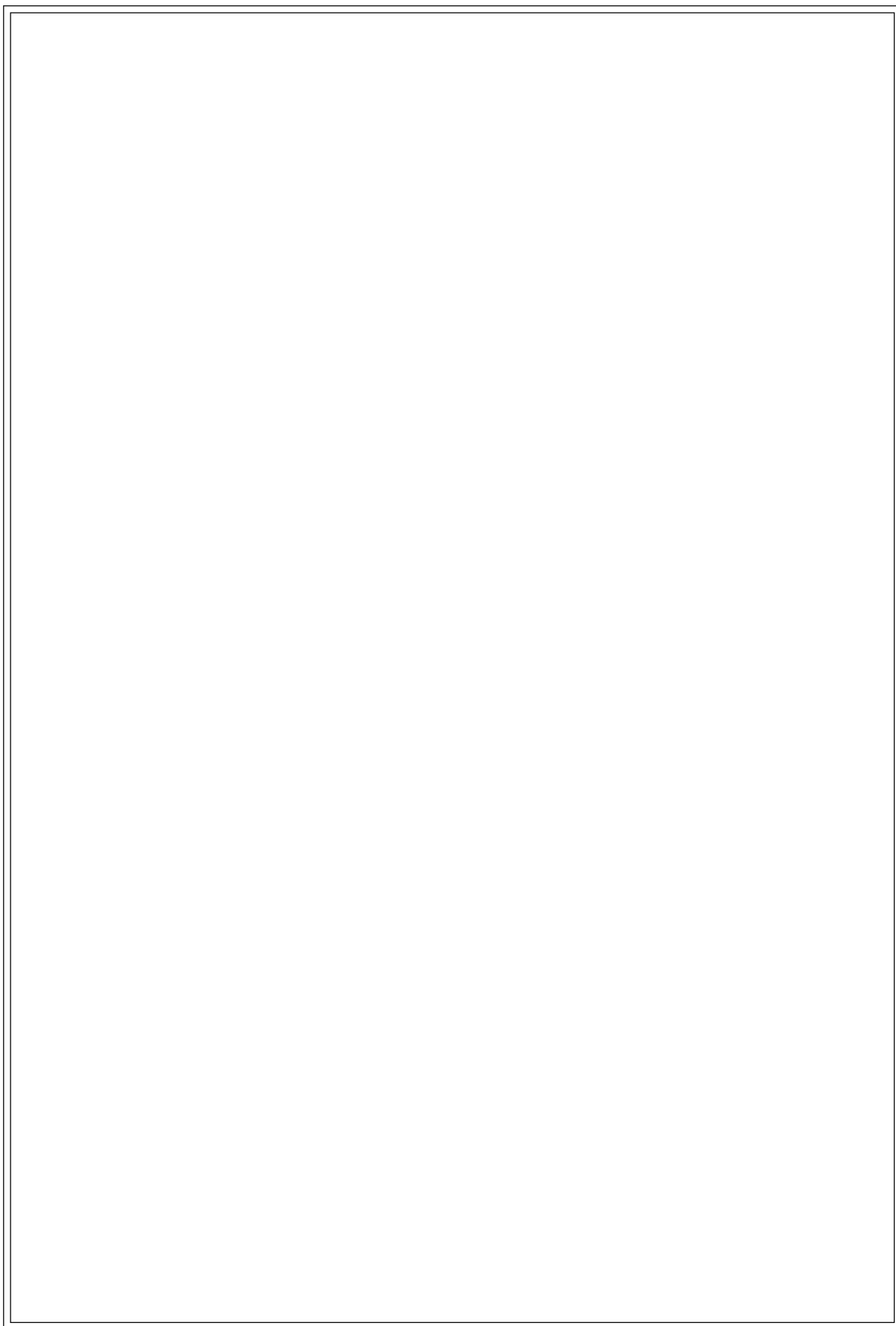
50) The volume of a cube is 9261000 m^3 , the side of the cube ismts

- 1) 210 2) 21 3) 310 4) 31

51) $x^4 - y^4 = 15$, x, y are positive integers then $x^4 + y^4 =$

- 1) 17 2) 31 3) 32 4) 113

- 52) Number of diagonals for a Heptagon is
1) 14 2) 7 3) 15 4) 8
- 53) The figure in which diagonals are equal and bisect each other perpendicularly.
1) Rhombus 2) Parallelogram 3) Rectangle 4) Square
- 54) When a die is rolled, the probability of getting an odd prime number is
1) $1/3$ 2) $2/3$ 3) $1/6$ 4) $5/6$
- 55) $(11111)^2 = \dots\dots$
1) 1234321 2) 123454321 3) 12345654321 4) 123321
- 56) The number of numbers that lie between squares of 12 and 13 is
1) 12 2) 24 3) 13 4) 26
- 57) $\sqrt{82} + \sqrt{316} + \sqrt{64} = \dots\dots$
1) 12 2) 10 3) 16 4) 11
- 58) In how many ways can 3 children share eight identical sweets so that each child gets atleast one.
1) 21 2) 24 3) 36 4) 45
- 59) Karthik took loan Rs. 5000 and paid Rs. 6600 after 4 years on S.I. Rate of interest%
1) 8 2) 10 3) 12 4) 6
- 60) The ratio of 1 degree to its equal seconds
1) 1 : 1 2) 1 : 60 3) 1 : 3600 4) 1 : 30

A large empty rectangular box with a double-line border, intended for the student to write their answers to the test questions.