CLASS - VII

1) Find the product of sum of -6 and 17 and difference of -12 and 15

1) 33 2) -33 3) 299 4) -297

2) Which of the following statements are true

A) Every fraction is a rational number
B) Every rational number is a fraction
C) Every integer is a rational number
D) Every number is a rational number

1) A,B,C 2) A,C 3) B,C 4) ALL

3) $\frac{0.02247\times0.384+0.02247\times0.616}{0.07\times1.583-0.07\times0.583}=?$

1) 0.321 2) 321 3) 3.21 4) 0.0321

4) Which of the following is not a simple equation

1) $7x + 4 = 5$ 2) $5(x - 3) = 7 + 2(x + 5)$

3) $\frac{5}{x+4}=\frac{6}{x+5}$ 4) $x+\frac{1}{x}=2$

5) The sum of 13 consecutive integers is 2015. What is the smallest of these integers

1) 149 2) 152 3) 124 4) 165

6) 11, 13, 17, 19, 23, 25 what comes next in this series

1) 26 2)29 3)27 4)37

7) The least number which when divided by 16, 18, 21 leaves a reminders 3,5 and 8 is

1) 1008 2) 995 3)105 4)300

8) Ramu read $\frac{3}{5}$ of a book. He finds that there are still 80 pages left to be read. What is the total number of pages in the book?

1) 120 2)200 3) 300 4)40

9) Which of the following is true with respect to $\frac{9}{16}$ *and* $\frac{13}{5}$

1) $\frac{9}{16}=\frac{13}{5}$ 2) $\frac{13}{5}<\frac{9}{16}$ 3) $\frac{9}{16}>\frac{13}{5}$ 4) $\frac{9}{16}<\frac{13}{5}$

10) What is the general form of this property of numbers?

1) a + b is natural for a, b are integers
2) a + b is an integer for a, b are integers
3) a + b is a whole number for a, b are integers
4) a+ b is zero for a, b are integers

11) $\frac{1}{6}$ *of* $2\frac{2}{3} \div \frac{4}{3} \times 1\frac{1}{2}$ is equivalent to

1) $\frac{2}{9}$ 2) $\frac{1}{2}$ 3) $\frac{3}{9}$ 4) $\frac{-2}{9}$

12) "Five Thousand Three Hundred" when represented in the form of lakhs =

1) 0.53 2) 0.053 3) 0.0053 4) 5.3

13) In a four digit number least prime in the tens place, three times of tens place, is in thousands place, half of thousands place is in units place, hundred place is three more than tens place, then the number is

1) 6325 2) 3652 3) 6253 4) 6523

14) In the following reflex angle, right angle, stright angle, acute angle in the same order

1) 360°, 90°, 180°, 115° 2) 180°, 90°, 115°, 70°
3) 195°, 90°, 180°, 45° 4) 185°,180°, 90°, 60°

15) The mathematician who wrote the book "The Elements" ?

1) Kaprekar 2) Euclid 3) Newton 4)Mahalanobis

16) 12.5 + 2.37 + 0.432 + 634.2 =

1) 649.502 2) 966.632 3) 64.412 4) 64.9502

17) In a code language 5 x 12 = 17; 10 + 8 = 2; 8 - 2 = 4 and 25 ÷ 5 = 125 then (5 x 10) ÷ [(18 + 6) - 2] =

1) 30 2) 15 3) 90 4) $\frac{25}{11}$

18) A certain freezing process requires that room temperature be lowered from 40°c at the rate of 5°c every hour. What will be the room temperature 10 hours after the process begins ?

1) 10°c 2) 90°c 3) -90°c 4)-10°c

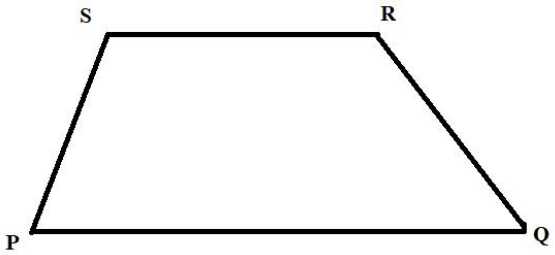
19) Sailaja plants 4 saplings in a row in her garden. the distance between two adjacent saplings is $\frac{3}{4}$ m. Then the distance between the first and the last sapling is

1) 3m 2) $3\frac{1}{4}$ m 3) $2\frac{1}{4}$ m 4) 2m

20) Sum of three consecutive integers is 24. Among these three the highest integer is

1) 10 2) 7 3) 8 4) 9

21) PQRS is a Quadrilateral. True statement among the following



A) PQ, RS are opposite sides
B) $\angle P, \angle Q$ are opposite angles
C) PS, SR are adjacent sides
D) $\angle R, \angle S$ are adjacent angles

1) A, B, C 2) A, C, D 3) B, C, D 4) A, B, D

22) If $\angle A = (2x-17)°$, $\angle B = (3x - 53)°$ and $\angle C = (5x-50)°$. If $\angle A, \angle B, \angle C$ forms a complete angle then the difference between largest and smallest angles is

1) 111° 2) 91° 3) 190° 4)79°

23) If a number is tripled and then decreased by 18 the result is 54, Then the value of 4 times that number increased by 30 is

1) 122 2) 124 3) 126 4) 128

24) What decimal of an hour is a second :

1) 0.016 2) 0.0025 3) 0.00027 4) 0.00036

25) In an entrance examination 60% marks are required to get a seat. Gopi got 232 Marks and lost his seat by 8marks. Maximum marks in the test is ___

1) 300 2) 400 3) 500 4) 600

26) 13 Times a number is added to the number to get 112 then the number is

1) 4 2) 6 3) 9 4) 8

27) A square of side 10cm is cut into two equal rectangles. Perimeter of the square is P. Perimeter of the rectangle is Q. then which is of the following is true

1) 2Q - P = 20 2) Q - P = 10 3) P - 2Q = 10 4) 2Q - P = 10

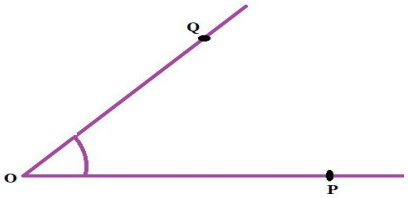
28) A three digit number 4a3 is added to another three digit number 984 to get four digit number 13b7 which is divisible by 11 then a + b =

1) 15 2) 11 3) 10 4) 12

29) If 1st December is Thursday, next 1st January falls on

1) Saturday 2) Sunday 3) Thursday 4) Tuesday

30) In the figure $\angle POQ = 50°$ then Refelx angle at the point 'o' is



1) 50° 2) 130° 3) 310° 4) 40°

31) If $\cup$ represents '-1'; $\cap$ represents '+1' Then the value of -3 corresponds to the figure

1) $\cup\cap\cup\cap\cup\cap$ 2) $\cup\cap\cap\cup\cap$ 3) $\cap\cup\cup\cap\cup\cup$ 4) $\cup\cup\cap\cup\cup$

32) In a class test containing 15 questions, 4 marks are given for every correct answer and -2 marks are given for every incorrect answer . Gopi attempted all Questions but only 9 answers are correct. What is his total score ?

1) 36 2) 20 3) 22 4) 24

33) I am a decimal number, who is half of one fourth of 100. Who am I ?

1) 12.5 2) 25 3) 12.8 4) 12

34) Raja walks $1\frac{1}{2}$ meters in 1second. How much distance will he walk in 15 minutes?

1) 130.5m 2) 1350m 3) 13.50m 4) 1305m

35) How many one fourths are needed to be added to $3\frac{1}{4}$ to make 6 ?

1) 8 2) 11 3) 4 4) 6

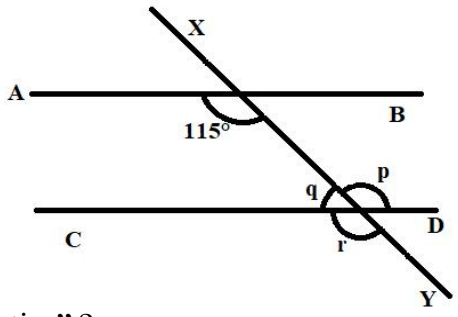
36) Which of the following is incorrect ?

1) $\frac{1}{2} > \frac{1}{3} > \frac{1}{4}$ 2) $\frac{2}{5} < \frac{4}{5} < 1$ 3) $\frac{2}{3} > \frac{3}{4} > \frac{7}{8}$ 4) $\frac{1}{6} < \frac{2}{5} < \frac{3}{4}$

37) The teacher tells the class that the highest mark obtained by a student in her class is twice the lowest mark plus 7. The highest score is 87.What is the lowest mark?

1) 80 2) 60 3) 20 4) 40

38) In the figure $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$ and $\overleftrightarrow{XY}$ is a transversal. Which of the following is incorrect?

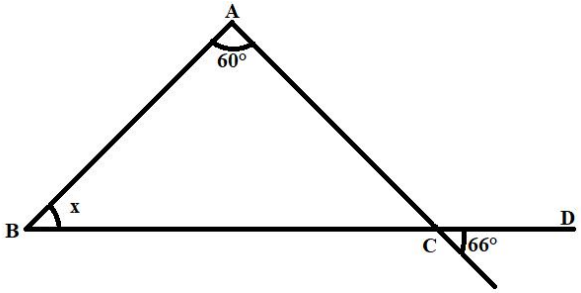


1) $\angle p = 115°$ 2) $\angle q = 115°$
3) $\angle q = 65°$ 4) $\angle r = 115°$

39) Who was popularly known as "Father of Statistics" ?
1) R.A Fisher 2) A.R. Mohauty 3) S. Ramanjun 4) Eular

40) If the difference between the exterior angle of a triangle and its adjacent angle is equal to 120° then the adjacent angle is
1) 60° 2) 30° 3) 45° 4) 80°

41) From the adjacent figure the value of x is



1) 68° 2) 54°
3)60° 4) 58°

42) In $\triangle ABC$ which of the following is false
1) $\overline{AB} - \overline{BC} < \overline{AC}$ 2) $\overline{BC} + \overline{CA} > \overline{AB}$
3) $\overline{AB} - \overline{BC} = \overline{AC}$ 4) None of these.

43) The date of birth of Srinivasa Ramanujan .....
1) 14th April 2) 22nd March
3) 14th November 4) 22nd December

44) A, B, C, D are four persons on a stright road. C is left of B, A is left of C and D is right to B. Then the order of the persons is
1) A, B, C, D 2) A, C, B, D 3) D, C, A, B 4) B, D, C, A

45) Assertion: 32.428 is not a perfect square
Reason: A number having 2, 3, 7 at one's place is never a perfect square
1) Both are True and Assertion is correctly explained by reason.
2) Both are True but Assertion is not correctly explained by Reason.
3) Assertion is false and Reason is true
4) Assertion is true and Reason is false

46) Sonu's father is thrice as old as Sonu. After 12 years he will be just twice his daughter. Then Sonu's present age is (in years)

1) 10 2) 15 3) 11 4) 12

47) MONKEY is coded as XDJMNL, then code of TIGER is

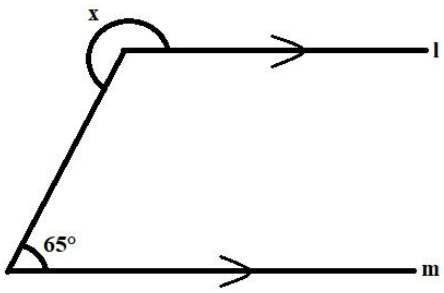
1) QDFHS 2) SDFHS 3) SHFDS 4) QJFHS

48) Which of the following is the same as

$$\frac{2-4-6-8+10-12+14}{3-6-9-12+15-18+21} =$$

1) -1 2) 1 3) $\frac{2}{3}$ 4) $-\frac{2}{3}$

49) If $l \parallel m$, then from the figure x =



1) 245° 2) 275°
3) 115° 4) 65°

50) 14% of a number is 35 then the number is

1) 135 2) 174 3) 182 4) 250

51) In $\triangle PQR$, if $\angle P$=100° and $\angle Q = \angle R$ then $\angle P + \angle R$ =

1) 100° 2) 140° 3) 40° 4) 180°

52) $1^2 = 1$; $11^2 = 121$; $111^2 = 12321$; $1111^2 = 1234321$ using this pattern 11111^2 =

1) 1234321 2) 123454321
3) 12345654321 4) 1234564321

53) What result will be obtained When the sum of $\frac{65}{12}$ and $\frac{8}{3}$ is divided by their difference

1) $\frac{1}{9}$ 2) $\frac{57}{7}$ 3) $\frac{97}{33}$ 4) $\frac{67}{33}$

54) If $a + \frac{1}{b + \frac{1}{c}} = \frac{37}{5}$ then a - b - c = ___

1) 5 2) 7 3) 4 4) 3

55) What are the two steps involved in solving the equation $15x + 4 = 26$.
1) Add 4 on both sides and then multiply both sides by 15
2) Add 4 on L.H.S and divide R. H. S by 15
3) Subtract 4 from both sides and then divide R. H. S by 15.
4) Subtract 4 on both sides and then divide both sides by 15

56) How many primes less than 100 have 7 in the one's digit ?
1) 4 2) 5 3) 6 4) 7

57) If one angle of a triangle is greater than two angles by 30° then the angles of the triangle are
1) 40°, 40°, 100° 2) 50°, 50°, 80°
3) 30°, 30°, 120° 4) 35°, 35°, 110°

58) If $40 - \frac{1}{4} \times B = 0$ Then what is the value of B
1) 0 2) 100 3) 200 4) 160

59) Which of the following equation can be constructed with x = 2
1) 3x - 4 = 2 2) 3x + 4 = 2 3) 3x - 4 = 8 4) 3x + 4 = 8

60) If the two interior angles of a triangle are 50° and 60° why third angle is not equal to 80°. Guess reason
1) Since it is not right angle
2) Since 80° > 60° and 50°
3) Since sum of the angles of a triangle is 180°
4) None of these