

Kendriya Vidyalaya No.2 Pondicherry

Winter Holiday Home Work 2016 – 2017

(Secondary Classes)

Class: VI – A & B

Subject	Topics				
English	Home test to be done by the students in the given set of questions under the supervision of any one parent in an A4 size paper and it should be signed by the parent. The answers should be written after learning the questions and answers without referring to the book or notebook.				
Hindi	<table border="1"><thead><tr><th>VI- A</th><th>VI-B</th></tr></thead><tbody><tr><td>Learn & Write Q & Ans (Les- 10 to 13), Pathra lekan & Nibandh in H.W. Side.</td><td>1.(Vasnt –lesson 10 to 13) learn and write all the answers in home work note two times. 2.(Bal Ram katha) learn and write all the answers two times. 3.write a letter to your principal thanking for arranging water purifier 4.Essay writing-mera mitr</td></tr></tbody></table>	VI- A	VI-B	Learn & Write Q & Ans (Les- 10 to 13), Pathra lekan & Nibandh in H.W. Side.	1.(Vasnt –lesson 10 to 13) learn and write all the answers in home work note two times. 2.(Bal Ram katha) learn and write all the answers two times. 3.write a letter to your principal thanking for arranging water purifier 4.Essay writing-mera mitr
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Sanskrit	शब्दरूपाणि – भानु, मुनिः संख्यापदानि – (१ – १०) 2 सुभाषितानि अर्थसहितं				
Maths	Students are asked to do the worksheets which is given for the chapters fractions,decimals, data handling in the <u>A4 SHEETS SEPARATELY</u> <u>WORKSHEET-FRACTIONS</u> 1. 18/5 is an example ----- fraction 2. Numerator of $\frac{1}{2}$ is----- 3. Denominator of $\frac{10}{30}$ is _____ 4. $(\frac{1}{2}) + (\frac{5}{2}) =$ _____ 5. $(\frac{3}{2}) - (\frac{0}{2}) =$ _____ 6. $(\frac{1}{2}) + (\frac{1}{3}) =$ _____ 7. Give one equivalent fraction of $(\frac{1}{2})$ _____ 8. Define fraction: 9. Define proper fraction 10. Define mixed fraction <u>WORKSHEET-DECIMALS</u> 1. Decimal form of seven tenths = _____ 2. Decimal form of $\frac{3}{10} =$ _____ 3. Fraction form of 0.5 = _____ 4. Simplest form of $\frac{10}{20} =$ _____ 5. 1 cm = _____ mm				

	<p>6. 1 m = _____ cm</p> <p>7. 1 kg = _____ g</p> <p>8. 1 cm = _____ m</p> <p>9. 5 + 0.05 = _____</p> <p>10. 1.2 - 0.2 = _____</p> <p style="text-align: center;"><u>WORKSHEET- DATA HANDLING</u></p> <p>1. Using tally marks, which one of the following represents the number eight</p> <p>a) IIII\IIII b) IIII II\ c) IIII d) III</p> <p>2. The marks obtained by 28 students in a mathematics test are listed as below :</p> <p>8,1,2,6,5,5,5,0,1,9,7,8,0,5,8,3,0,8,10,10,3,4,8,7,8,9,2,0</p> <p>The number of students who obtained marks more than or equal to 5 is</p> <p>a) 13 b) 15 c) 16 d) 17</p> <p>3. The data can be arranged in a tabular form using _____ marks.</p> <p>4. In question 2 above, the number of students who scored marks less than 4 is _____</p> <p>a) 15 b) 13 c) 12 d) 10</p>
Science	<p>1. Draw and explain various methods of separation.</p> <p>2. List out 2 examples which occur around you and explain on reversible and irreversible changes.</p> <p>3. Draw various joints and write a brief on them.</p>
Social Science	<p>1. Learn all the questions answer of fa3 portion</p> <p>2. Learn and write all the fill in the blanks, state true and false, and choose the correct answer in homework side of your note book (fa3 portion)</p> <p>3. Home test – write the given questions answer in A4 sheet in front of your parent</p>

Class: VII – A & B

Subject	Topics	
English	Home test to be done by the students in the given set of questions under the supervision of any one parent in an A4 size paper and it should be signed by the parent. The questions are given to the students and after learning the answers they should write without referring to the book and notebook.	
Hindi	VII - A	VII-B
	1. (Vasant-lesson 11 to 15)- learn and write all the answers in	Learn & Write Q & Ans (Les- 11 to 15), Pathra lekan & Nibandh in H.W. Side.

	<p>home work note two times</p> <p>2.(Mhabharat ktha)- All the fa-3 portion question-answers learn and write</p> <p>3.Letter writing- write a letter to your friend about your community lunch</p> <p>4.Essay writing-holi</p> <p>Note- read and memorise all the fa-3 portion</p>	
Sanskrit	<p>शब्दरूपाणि – पितृ, मधु</p> <p>धातुरूपाणि – स्थ, पच्, पा (लट्, लङ्ग्, लृट्, लोट्, विधि लिङ्ग्)</p> <p>संख्यापदानि – १ - १००</p>	
Maths	<p>Fill in the blanks</p> <ol style="list-style-type: none"> 1. 20% of 700 m is _____ 2. The weight of 72 books is 9 kg than weight of 80 such books is _____. 3. 11% of which number is 33? 4. _____ + 15/23 = 4 5. The multiplication inverse of -11/12 is _____. 6. The area of a circle whose circumference is 880cm is _____. 7. 1m sq. = _____ cm sq. 8. Radius of circle whose circumference is 6.28 is _____. 9. The distance around a circle is its _____. 10. On a number line , 4/3 is to the _____ of 0. <p>Answer the following</p> <ol style="list-style-type: none"> 11. Find 75% of 1 kg. 12. Convert into percents <ol style="list-style-type: none"> a. 12/15 b. 0.05 13. Arun bought a car for Rs.3,50,000. The next year , the price went up to Rs.3,70,000. What was the percentage price increase? 14. Find the whole quantity <ol style="list-style-type: none"> A .40% of it is 800 15. Arrange the numbers in ascending order <ol style="list-style-type: none"> a.6/5,-7/15,-3/21 16. Find the value <ol style="list-style-type: none"> a. 6/15+3/5 b. 9/4-[-7/20] c. -21/45x[-15/-7] d. 8/49 /[-2/7] 17.List five rational numbers between -2/5 and -6/7 18.Find the area and circumference of a circle whose diameter is 14 cm. 19.Find the breadth of a rectangular plot of land, if its area is 440 m sq. and the length is 22m.also find its perimeter. 20.Find the area of the figure 	

	<p>a.</p>
Science	<ol style="list-style-type: none"> 1. Collect information about the types of fuels used for cooking in your area. Discuss and write which fuels are less polluting and why. 2. List out the difference between Loamy, Clayey and Sandy Soil. 3. Tabulate the properties of plane mirror, Convex and Concave Mirror, Convex and Concave Lense
Social Science	<ol style="list-style-type: none"> 1. Learn all the questions answer of fa3 portion 2. Learn and write all the fill in the blanks , state true and false, and choose the correct answer in homework side of your note book (fa3 portion) 3. Home test – write the given questions answer in A4 sheet in front of your parent

Class: VIII – A & B

Subject	Topics	
English	<ol style="list-style-type: none"> 1. Paragraph Writing : Why do I believe in God? (Home Work of the lesson 'Jalebis') 2. Project: Scrap Book – Monsoons/Comets (Individual Work during Holidays. Group compilation after reopening.) 3. List out Annotation Questions and Answers (From the three poems prescribed for FA 3) 	
Hindi	<p>VIII - A</p> <p>Learn & Write Q & Ans (Les- 11 to 15) & Grammar.</p>	<p>VIII -B</p> <p>हिंदी गृहकार्य – किये गए पाठों के सभी प्रश्नों के उत्तर लिखो और याद करो पाठ के भाषा के बात को भी लिखकर लाना है 3 जनवरी को नोट बुक जमा करना है </p>
Sanskrit	<p>प्रत्ययाः उपपदविभक्ति प्रयोगः संख्यवाचिपदानि – १ – १००</p>	

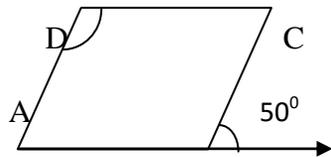
Maths	Graph: 1) Page-235 , Ex:2 2) Page-241, Ex:3 3) Page-243, Q1.4 4) Page-247, Q1 Exponents: 1) Page-194 2) Page-196, Ex:2,5 3) Page-197, Q3 4) Page-198, Q7 Mensuration: 1) Page-171, Q5 2) Page-178, Q4,5 3) Page-190, Ex:8,9 4) Page-191, Q3,4,5	Algebra: 1) Page-139, Ex 1 2) Page-140, Q3,4 3) Page-143, Q1 4) Page-145, Ex 7 5) Page-146, Q4,5 6) Page-150, Ex 1 7) Page-152, Q4,8
Science	1. WRITE Table no. 5.1 from page no. 60. 2. Describe the experiment to show that air is needed for burning. Draw suitable diagrams. 3. Explain the first animal cloning and stick pictures in support of your answer. 4. Make a kaleidoscope and submit.	
Social Science	1. Learn all the questions answer of fa3 portion 2. Learn and write all the fill in the blanks , state true and false, and choose the correct answer in homework side of your note book (fa3 portion) 3. Home test – write the given questions answer in A4 sheet in front of your parent	

Class: IX – A & B

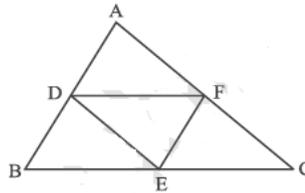
Subject	Topics
English	Assignment1: Q.8 in page 42 of literature reader be attempted. Assignment2: (Paragraph writing) (A) A journey of a thousand miler begins with single step (WL 100). (B) A little knowledge is dangerous thing (WL100). Assignment3: (work book) 1.page-27-workbook, Q-Match the A with B 2.Page-28-workbook, Q-8,9 (compound words, both, neither)
Hindi	हिंदी गृहकार्य – दो निबंध , किये गए पाठो के प्रश्नोत्तर कार्य समास तथा उसके सभी भेद ,(10 उदहारण)
Sanskrit	अनुच्छेदलेखन – पर्यावरणम्, जन्तुशाला संख्यावाचिपदानि – १ – १००

**STUDENTS CAN DO IN A4 SHEETS SEPARATELY
(ONLY CHAPTERS 4, 8 AND 9)
SA2-MODEL QUESTIONS – MATHEMATICS - CLASS-IX**

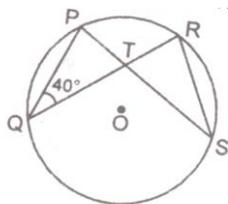
1. Find the value of 'k' for which $\chi=1$, $y=-1$ is a solution of $k\chi-2y=0$.
2. Write any two solutions of the linear equation $2x - y = 5$
3. For the point (1, 2), find the equation of a line on which it lies. How many such equations are possible ?
4. In the given figure, ABCD is a parallelogram in which $\angle CBE=50^\circ$. What is the value of χ ?



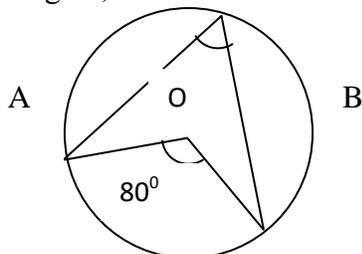
5. The diagonals AC and BD of a parallelogram ABCD intersect each other at the point O, if $\angle DAC = 32^\circ$ and $\angle AOB = 72^\circ$ then find $\angle DBC$.
6. Triangle DEF is formed by joining the mid-points of the sides AB, BC, and CA of the triangle ABC whose area is 64 cm^2 . Find the area of the triangle DEF.



7. In the given figure $\angle PQR = 40^\circ$. Find the value of $\angle RSP$ is



8. In the figure, if O is the centre of a circle, then the measure of $\angle ACB$ is:



9. AD is diameter of a circle and AB is a chord. If $AD= 34 \text{ cm}$, $AB = 30 \text{ cm}$. Find DB.

10. What is the mean of first 10 natural numbers?
 11. Find the class mark of the class 100 – 130.
 12. The mean of 16 numbers is 8 . If 2 is added to every number, what will be the new mean.
 13. To know the opinion of the students about the subject statistics, a survey of 200 students was conducted. The data is recorded in the following table.

Opinion	Number of students
Like	135
dislike	65

- Find the probability that a student chosen at random
 (i) likes statistics, (ii) does not like it.
 14. Find the value of 'a' , if (-1,-1) is a solution of the equation $3x + ay = 5$.
 15. If (a, 6) lies on the graph of the equation $3x + y = 9$. Find the values of 'a'.
 16. If surface area of two spheres are in the ratio of 4:9 then find the ratio of their volumes .
 17. Three cubes each of side 4cm are joined end to end. Find the surface area of the resulting cuboid.
 18. If the volume of a sphere is $288\pi \text{ cm}^3$ then find its radius.
 19. The diameter of a garden roller is 1.4m and it is 2m long . How much area will it cover in 5 revolutions ? ($\pi = 22/7$)
 20. The curved surface area of a cylinder is 3960 cm^2 . Find its height if the radius is 21cm.

(Use $\pi = \frac{22}{7}$)

21. Find the median and mode of the data:
 2,3,4,5,0,1,3,3,4,3
 22. The water –tax bills (in Rs.) of 20 houses in a locality are given below:-
 144 , 184 , 130 , 195 , 132 , 174 , 196 , 114 , 112 , 174 ,
 125 , 153 , 145 , 175 , 154 , 174 , 178 , 166 , 146 , 135
 Construct a frequency distribution table with class size 10.
 23. Find the mode and median of the following data:
 5, 7, 6, 5, 9, 8, 6, 7, 11, 10, 5, 7, 6, 8, 6, 9, 10.
 24. If the point (3,4) lies on the graph of the equation $3y=ax+7$, find the value of a.
 25. The weather forecast from a news channel shows that out of the past 300 consecutive days , its weather forecast was correct 210 times .
 i) What is the probability that on a given day , it was correct ?
 ii) What is the probability that on a given day , it was not correct ?
 26. The curved surface area of a right circular cylinder of height 14 cm is 88 cm^2 . Find the diameter of the base of the cylinder.
 27. In a cricket match, a batsman hits a boundary 4 times out of 30 balls, he plays. Find the probability that he did not hit a boundary.
 28. A bag contains cards numbered from 1 to 100. A card is drawn at random from the

bag.

Find

the probability that the card bears

- i) a number which is a multiple of 5
- ii) a number which is greater than or equal to 90.

29. In an experiment, a coin is tossed 600 times. If the head turns up 260 times find the experimental probability of getting i) a head ii) a tail

30. 1500 families with 2 children were selected randomly, and the following data were recorded:

Number of girls in a family	2	1	0
Number of families	475	814	211

Compute the probability of a family, chosen at random, having

- (i) 2 girls
- (ii) 1 girl

31. Draw the graph of the linear equation $3x + y = 6$ by using at least 4 points. Also find the

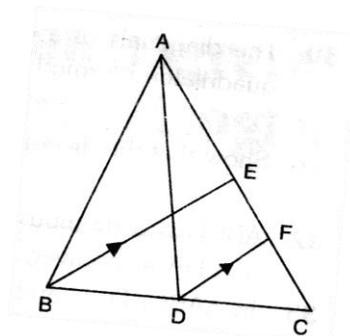
coordinates of the points where the graph cuts the x-axis and y-axis.

32. Prove that the diagonal of a parallelogram divides it into two congruent triangles.

33. Write the equation $4 = 5x - 3y$ in the form $ax + by + c = 0$ and indicate the values of a , b and c . Also find four solutions to the equation.

34. In the given figure, AD and BE are medians of $\triangle ABC$ and $DF \parallel BE$. Show that

$$AC = 4CF$$

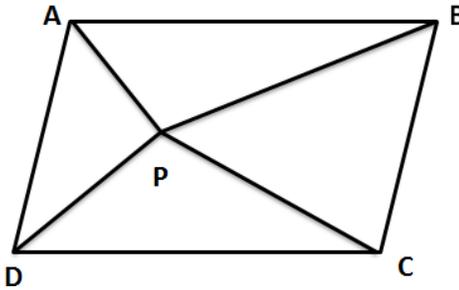


35. Prove that the sum of the four angles of a quadrilateral is 360°

36. Prove that parallelograms on the same base and between same parallels have the same area.

37. P is a point in the interior of a parallelogram $ABCD$.

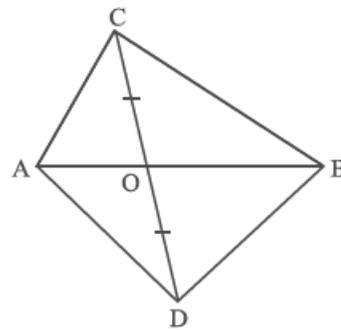
$$\text{Show that } \text{ar}(\triangle APB) + \text{ar}(\triangle PCD) = \frac{1}{2} \text{ar}(ABCD)$$



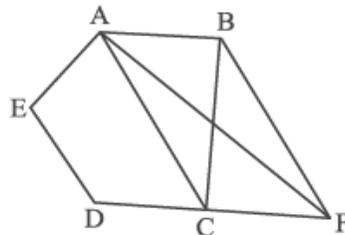
38. Give the geometric representations of $2x+9=0$ as an equation

(i) in one variable (ii) in two variable

39. In the figure ABC and ABD are the triangles on the same base AB. If the line segment CD is bisected by AB at O, then show that $\text{ar}(\text{ABC}) = \text{ar}(\text{ABD})$



40. In the given figure ABCDE is a pentagon. A line through B parallel to AC meets DC produced at F. Show that i) $\text{ar}(\text{ACB}) = \text{ar}(\text{ACF})$ ii) $\text{ar}(\text{AEDF}) = \text{ar}(\text{ABCDE})$



41. In ΔABC , D, E & F are the midpoints of the sides of BC, CA, AB respectively.

Show that i) BDEF is a parallelogram

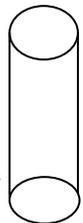
ii) $\text{ar}(\Delta DEF) = \frac{1}{4} \text{ar}(\Delta ABC)$

iii) $\text{ar}(\text{BDEF}) = \frac{1}{2} \text{ar}(\Delta ABC)$

42. In a triangle ABC, E is the mid-point of median AD. Show that $\text{ar}(\text{BED}) = \frac{1}{4} \text{ar}(\text{ABC})$

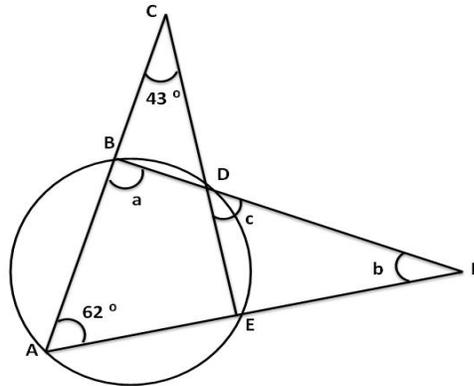
43. A metal pipe is 77 cm long. The inner diameter of a cross section is 4 cm, the diameter being 4.4 cm. Find its

(i) inner curved surface area,

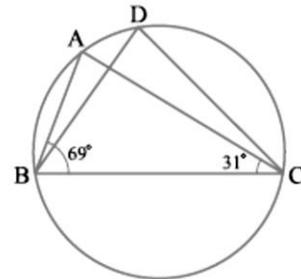


- (ii) outer curved surface area,
- (iii) total surface area.

44. In the following figure determine a, b and c.



45. In Fig. $\angle ABC = 69^\circ$, $\angle ACB = 31^\circ$, find $\angle BDC$.



46. The dimensions of a cuboid are in the ratio of 1:2:3 and its total surface area is 88m^2 . Find the dimensions of the cuboid.

47. A lead pencil consists of a cylinder of wood with a solid cylinder of graphite filled in the interior. The diameter of the pencil is 7mm and the diameter of the graphite is 1mm. If the

length of the pencil is 14cm, find the volume of the wood. (Use $\pi = \frac{22}{7}$)

48. A patient in a hospital is given soup daily in a cylindrical glass of diameter 7 cm. If the glass is filled with milk to a height of 5 cm, how much soup the hospital has to serve to 300 patients? (use $\pi = \frac{22}{7}$). Suggest some ways to keep yourself healthy.

49. A godown measures 30 m x 20m x 8m find the maximum number of wooden crates each

measuring 1.2m x 0.8m x 0.5m can be stored in the godown.

50. If diagonals of a cyclic quadrilateral are diameters of the circle through the vertices of the quadrilateral, prove that it is a rectangle.

51. The inner diameter of a circular well is 3.5 m. It is 10 m deep. Find

- (i) its inner curved surface area,
- (ii) the cost of plastering this curved surface at the rate of Rs 40 per m^2 .

52. Find the median of the data 19 , 25 , 60 , 49 , 36 , 31,32 and 56.
If in the given data 19 is replaced by 91 then what is the new median.

53. The marks obtained (out of 100) by 51 students of a class are as under:

Marks	Number of students
0-10	5
10-20	10
20-30	4
30-40	6
40-50	7
50-60	3
60-70	2
70-80	2
80-90	3
90-100	9

Draw a frequency polygon corresponding to the above frequency distribution.

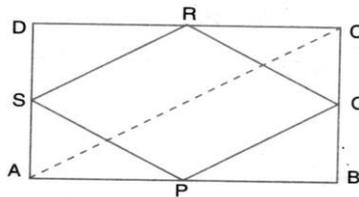
54. Find the mean of the following data:

Marks:	10	11	12	13	14
15					
Number of students:	6	3	4	5	7
5					

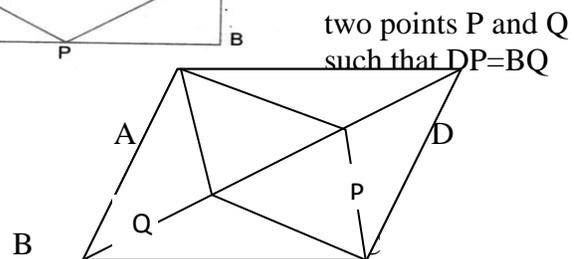
55. If two circles intersect at two points, then prove that their centres lie on the perpendicular bisector of the common chord.

56. ABCD is a rectangle and P, Q, R and S are the midpoints of the sides AB, BC, CD and DA respectively. Show that the quadrilateral PQRS is a rhombus.

57. ABCD is rectangle and P, Q, R and S are mid-points of the sides AB, BC, CD and DA respectively. Show that the quadrilateral PQRS is a rhombus.



58. In parallelogram ABCD, are taken on diagonal BD (see the given figure). Show that:
(a) $\Delta APD \cong \Delta CQB$
(b) $AP=CQ$
(c) $\Delta AQB \cong \Delta CPD$
(d) $AQ=CP$



(e) APCQ is a parallelogram

59. If the diagonals of a parallelogram are equal, then show that it is a rectangle.

60. ABC is a triangle right angled at C. A line through the mid-point M of hypotenuse AB and parallel to BC intersects AC at D. Show that

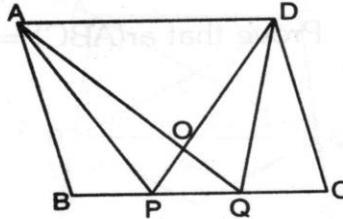
i) D is the mid-point of AC

ii) $CM = MA = \frac{1}{2}AB$

61. Prove that the angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.

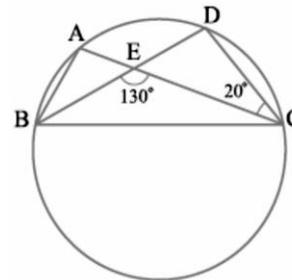
62. ABCD is a parallelogram. Points P and Q on BC trisect BC in three equal parts. Prove

$$\text{that ar}(\triangle APQ) = \text{ar}(\triangle DPQ) = \frac{1}{6} \text{ar}(\triangle ABCD)$$



63. In Fig., A, B, C and D are four points on a circle. AC and BD intersect at a

point E such that $\angle BEC = 130^\circ$ and $\angle ECD = 20^\circ$. Find $\angle BAC$.



64. Construct a triangle ABC in which $BC=8\text{cm}$, $\angle B=45^\circ$ and $AB-AC=3.5\text{cm}$.

65. Prove that the angle subtended by an arc at the centre is double the angle subtended by

it at the remaining part of the circle.

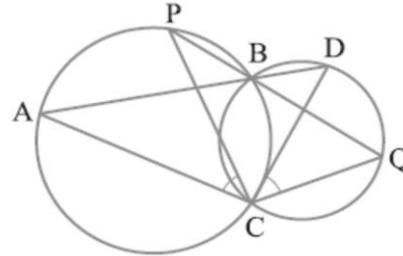
66. 100 surnames were randomly picked up from a local telephone directory and a frequency distribution of the number of letters in the English alphabet in the surnames was found as follows:

Number of letters	Number of surnames
1-4	6
4-6	30
6-8	44
8-12	16
12-20	4

(i) Draw a histogram to depict the given information.

(ii) Write the class interval in which the maximum number of surname lie.

67. In the following figure, two circles intersect at two points B and C. Through B, two line segments ABD and PBQ are drawn to intersect the circles at A, D and P, Q respectively. Prove that $\angle ACP = \angle QCD$.



68. Construct a triangle XYZ in which $\angle X = 30^\circ$, $\angle Z = 90^\circ$ and $XY + YZ + ZX = 10$ cm.

$\angle Y =$ _____

69. Construct a triangle ABC in which $BC = 7$ cm, $\angle B = 75^\circ$ and $AB + AC = 13$ cm.

70. The volume of right circular cone is 9856 cm^3 . If the diameter of the base is 28 cm, find

- (i) height of the cone
- (ii) slant height of the cone
- (iii) curved surface area of the cone.

71. Three cubes each of side 4 cm are joined end to end. Find the surface area and the volume of the resulting cuboid.

72. Three coins are tossed simultaneously 200 times with the following frequencies of different outcomes:

Outcome	3 heads	2 heads	1 head	No head
Frequency	23	72	77	28

Compute the probability of:

- (i) 3 heads coming up
- (ii) 2 heads coming up
- (iii) 1 head coming up.
- (iv) no heads.

73. A metallic cuboid having dimension $100 \times 80 \times 64 \text{ cm}^3$ melted and recast in to a cube.

Find the total surface area of the cube.

74. A social welfare organisation supplies soup daily to each of the patients of a nearby hospital in cylindrical bowls of diameter 7cm each. If the bowl is filled with soup to height 4 cm and the number of patients in the hospital is 300, find how many litres of soup is supplied by the organization to the hospital daily. What value is indicated from this action?

75. A wooden toy is in the form of a cone surmounted on a hemisphere. The diameter of the base of the cone is 6cm and its height is 4cm. Find the cost of painting 100 toys at the rate of Rs. 5 per 100cm^2 .

76. The diameter of the moon is approximately one-fourth of the diameter of the earth. What

fraction of the volume of the earth is the volume of the moon?

77. Consider the marks out of 100 obtained by 51 students of a class in a test given in the

following table.

Marks	Number of students
0 - 10	5
10 - 20	10
20 - 30	4
30 - 40	6
40 - 50	7
50 - 60	3
60 - 70	2
70 - 80	2
80 - 90	3
90 - 100	9
Total	51

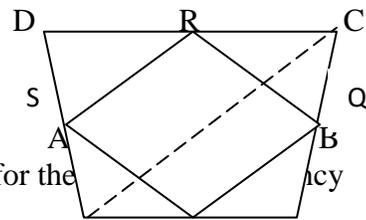
Draw a frequency polygon corresponding to this frequency distribution table.

78. ABCD is a quadrilateral in which P,Q,R and S are mid-points of the sides AB,BC,CD and DA in the given figure. AC is a diagonal. Show that:

(i) $SR \parallel AC$ and $SR = \frac{1}{2} AC$

(ii) $PQ = SR$

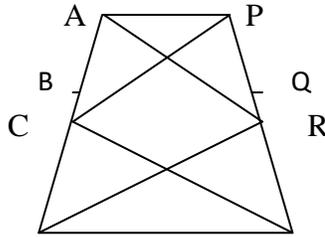
(iii) PQRS is a parallelogram.



79. Construct a histogram and frequency polygon for the distribution :

Weight (in Kg)	40 -45	45 -50	50 -55	55 -60	60 – 65	65 -70
Number of persons	15	25	28	15	12	5

80. In the given figure $AP \parallel BQ \parallel CR$. Prove that $\text{ar}(AQC) = \text{ar}(PBR)$.



81. A die is thrown 400 times with the frequencies for the outcomes 1, 2, 3, 4, 5 and 6 as given in the following table.

Outcome:	1	2	3	4	5	6
Frequency:	72	65	70	71	63	59

Find the probability of

- (i) getting a number less than 3.
- (ii) getting an outcome 6.
- (iii) getting a number more than 4.
- (iv) getting 5

82. An organisation selected 2400 families at random and surveyed them to determine a relationship between income level and the number of vehicles in a family. The information gathered is listed in the table below:

Monthly income (in Rs)	Vehicles per family			
	0	1	2	Above 2
Less than 7000	10	160	25	0
7000 – 10000	0	305	27	2
10000 – 13000	1	535	29	1
13000 – 16000	2	469	59	25
16000 or more	1	579	82	88

Suppose a family is chosen. Find the probability that the family chosen is

- (i) earning Rs 10000 . 13000 per month and owning exactly 2 vehicles.
- (ii) earning Rs 16000 or more per month and owning exactly 1 vehicle.
- (iii) earning less than Rs 7000 per month and does not own any vehicle.
- (iv) earning Rs 13000 . 16000 per month and owning more than 2 vehicles.

Science

- 1. Activity 11.7
- 2. Working and functioning of Human Ear.
- 3. Explain in detail the history of atomic theory(Ch.3,4)
(max. 10 A4 sheets)

Social

- 1. ASSIGNMENT: National parks, wildlife Sanctuaries, Tiger Reserves in India.

Science	Name	State	Animal	Year
	2. CHART/COLLAGE : Topic-HISTORY AND SPORT ,Story of Cricket			

Class: X – A & B

Subject	Topics
English	<p>1. (Vasant-lesson 11 to 15)- learn and write all the answers in home work note two times</p> <p>2.(Mhabharat ktha)- All the fa-3 portion question-answers learn and write</p> <p>3.Letter writing- write a letter to your friend about your community lunch</p> <p>4.Essay writing-holi</p> <p>Note- read and memorise all the fa-3 portion</p>
Hindi	<p>1.model question paper - 1 and 2</p> <p>2.seen passage-</p> <p>(i) ek khani yah bhi</p> <p>(ii) stri siksha ke virodhi kutrko ka khandan</p> <p>(iii) ram lakshman pursuram smvad</p> <p>(iv) chaya mat chuna</p> <p>(v) kanyadan</p> <p>3.essay writing-</p> <p>i. mera bharat desh</p> <p>ii. mere jivan ka lakshya</p> <p>iii. bal muzduri</p> <p>4. read and memorise all lessons and all grammar part</p>
Sanskrit	अनुच्छेदलेखनं – अरुनाचलप्रदेशः
Maths	<p>1. The fourth term of an A.P. is 0. Prove that its 25th term is triple its 11th term.</p> <p>2. If the pth, qth, rth term of an A.P. is x, y and z respectively, show that $x(q-r) + y(r-p) + z(p-q) = 0$.</p> <p>3. A man arranges to pay a debt of Rs.3600 in 40 monthly installments which are in an A.P. when 30 installments are paid he dies leaving one third of the debt unpaid. Find the value of the first installment.</p> <p>4. Find the sum of first 40 positive integers divisible by 6 also find the sum of first 20 positive integers divisible by 5 or 6.</p> <p>5. If the roots of the equation $(a-b)x^2 + (b-c)x + (c-a) = 0$ are equal. Prove that $2a=b+c$.</p> <p>6. A pole has to be erected at a point on the boundary of a circular park of diameter 13m in such a way that the differences from two diametrically opposite fixed gates A & B on the boundary in 7m.Is it possible to do so? If answer is yes at what distances from the two gates should the pole be erected.</p> <p>7. A two digit number is such that the product of the digits is 12. When</p>

	<p>36 is added to this number, the digits interchange their places. Find the number.</p> <ol style="list-style-type: none"> 8. Examine whether the points (1,2), (2,-1), (5,3) and (4,5) are the vertices of a right triangle. 9. Show that the points (1,2), (2,-1), (5,3) and (4,6) taken in order form a parallelogram. Is it a rectangle? 10. The area of a triangle is 5. Two of its vertices are (2,1) and (3,-2). The third vertex lies on $y=x+3$. Find the vertex. 11. Show that the points $A(a,a)$, $B(-a,-a)$, $C(-a\sqrt{3},a\sqrt{3})$ form an equilateral triangle. 12. Two ships are sailing in the sea on either side of a light house; the angles of depression if the ships as observed from the top of the light house are 60° and 45° respectively. If the distance of the ships is $200(1+\sqrt{3}/\sqrt{3})$ meters, find the height of the light house. 13. From an aero plane vertically above a straight horizontal road, the angles of depression of two consecutive milestones on opposite sides of the aero plane are observed to be α and β. Show that the height of the aero plane above the road is $[\tan\alpha \cdot \tan\beta / \tan\alpha + \tan\beta]$. 14. A boy standing on a horizontal plane finds a bird flying at the distance of 100m from him at an elevation of 30°. A girl standing on the roof of a 20m high building finds the angle of elevation of the same bird to be 45°. Both the boy and the girl are on opposite sides of the bird. Find the distance of the bird from the girl. 15. The angles of elevation of the top of a tower from two points at distances a and b meters from the base and in the same straight line with it are complementary. Prove that the height of the tower is \sqrt{ab} meters. <p>Do the sums in A4 sheet and get your parent signature</p>
Science	<p>Chemistry:</p> <ol style="list-style-type: none"> 1. Write a brief report on the ill effects of ethanol in our day-to-day life. 2. Describe the action of soap on hard and soft water and the cleansing mechanism of soap. 3. Collect the possible information about detergents, its advantages and disadvantages over soap. <p>BIOLOGY</p> <ol style="list-style-type: none"> 1. Trace the Evolution of man mentioning the evolved characteristics at different stages. 2. Explain the evidences of Evolution taking examples not mentioned in the text book.
Social Science	<ol style="list-style-type: none"> 1. Chart Preparation - Political Parties (National / State , Any One) 2. Assignment – Indian Standard Institution- ISI

Class: XI

Subject	Topics
English	5 – Writing skills questions
Hindi	हिंदी गृहकार्य – दो निबंध , किये गए पाठो के प्रश्नोत्तर कार्य अक्क महादेवी तथा मीरा का तुलनात्मक अध्ययन पूरा करना है (टाइप करके लाना है)
Maths	<p>1. $\lim_{x \rightarrow 1} \frac{(2x-3)(\sqrt{x}-1)}{2x^2+x-3}$</p> <p>2. $\lim_{x \rightarrow 1/2} \frac{8x^3-1}{16x^4-1}$</p> <p>3. $\lim_{x \rightarrow 1} \frac{x^4-1}{x-1} = \lim_{x \rightarrow k} \frac{x^3-k^3}{x^2-k^2}$ Evaluate k</p> <p>4. $\lim_{x \rightarrow 0} \frac{\cos Ax - \cos Bx}{x^2}$</p> <p>5. $\lim_{x \rightarrow \pi/2} \frac{\sqrt{2}-\sqrt{1+\sin x}}{\sqrt{2}\cos^2 x}$</p> <p>6. $\lim_{x \rightarrow 0} \frac{2^x - 1}{\sqrt{1+x} - 1}$</p> <p>7. $\lim_{x \rightarrow 0} \frac{(1+x)^n - 1}{x}$</p> <p>8. $\lim_{x \rightarrow 0} \frac{\sin 2x + \sin 3x}{2x + \sin 3x}$</p> <p>9. $\lim_{x \rightarrow a} \frac{x^a + a^a}{x+a}$ Find a</p> <p>10. Find the derivative of $\sqrt[3]{\sin x}$</p> <p>11. Differentiate $(\sqrt{x} + \frac{1}{\sqrt{x}})^2$</p> <p>12. $\frac{d}{dx} \left[\frac{\sec x - 1}{\sec x + 1} \right]$</p> <p>13. $\frac{d}{dx} \left[\frac{\sin(x+a)}{\cos x} \right]$</p> <p>14. Differentiate $e^{2 \log x}$</p> <p>15. Find The co-ordinates of a point from the four point $(0,0,0), (a,0,0), (0,b,0)$ and $(0,0,c)$</p> <p>16. The mid point of the sides of a triangle are $(1,5,-7), (0,4,-$</p>

	<p>2),(2,3,4), Find its vertices.</p> <p>17.If the origin is the centroid of the triangle with vertices P(2a,2,6) Q(-4,3b,-10) and R(8,14,2c),Find a ,b,c.</p> <p>18.Three vertices of a parallelogram ABCD are A(3,-1,2) B(1,2,-4) C(-1,1,2).Find the fourth vertex.</p> <p>19.Find the ratio in which the joining (2,4,5)and (3,5,4) divided by yz plane.</p> <p>20.$f(x) = \begin{cases} \cos x, & x > 0 \\ x + k, & x \leq 0 \end{cases}$ Limit exists , Evaluate k</p> <p style="text-align: center;"><u>Answers</u></p> <p>1) $\frac{-1}{10}$ 2) $\frac{3}{4}$ 3) $\frac{8}{3}$ 4) $\left[\frac{B^2-A^2}{2}\right]$</p> <p>5) $\frac{1}{8}$</p> <p>6)2log2 7) -n 8) 1 9) a=± 1</p> <p>15)$\left[\frac{a}{2}, \frac{b}{2}, \frac{c}{2}\right]$</p> <p>17) a=-2,b=-16/3,c=2 18)(1-2,8) 19)[2:3]</p> <p>1)externally 20)k=1</p>
Physics	<p>1) Simple numerical on properties of solids, liquid, fluids, thermodynamics</p> <p>2) Bernoulli's theorem derivation and application</p> <p>3) Carnot's theorem, cycle and efficiency derivation</p> <p>4) Gravitation and rotational motion conceptual questions-10 questions from each chapter.</p>
Chemistry	<p>1. Organic Chemistry -Basic principles and techniques-Solved examples and Exercise numerical.</p> <p>2. Investigatory project for Term III (Group of two or three)</p>
Biology	<p>1. Draw the various pathways in Photosynthesis and Respiration.</p> <p>2. Name the plant growth hormones and list their functions.</p>
Comp.Sci	<p>Assignment1: Various types of input devices and output devices in computer.</p> <p>Assignment2: Escape sequence character programs in C++</p>