



## R.E.D. Schools

(Managed by R.E.D. Society, Chhuchhakwas)

**Class- IX (Summer Holidays Home Work)**

**Session: 2017-2018**

R.E.D. SR. SEC. SCHOOL  
CHHUCHHAKWAS

### ENGLISH

- Write a diary entry expressing your feelings about the most enjoyable day of your vacations.
- Read ch-5 to 7 of Novel and underline the difficult words in book & write their meanings in separate notebook.
- Prepare chart as per the following Roll No.  
Determiners \_\_\_\_\_ 1-15  
Modals \_\_\_\_\_ 16-30  
Tenses \_\_\_\_\_ 31-45
- Pre-read drama -A -Villa for Sole and underline adjectives in book and use them in sentences of your own.
- Take out five news headlines from newspaper daily and explain them.

### HINDI

कठस्थ करने का कार्य –

क्षितिज – पाठ – दो बैलों की कथा, ल्हासा की और, साखियों ओर सबद, वाख ।

कृतिका – पाठ – इस जल प्रलय में ।

व्याकरण – वाक्य(अर्थ के आधार पर), उपसर्ग,प्रत्यय और समास ।

सृजनात्मक लेखन का कार्य–

- निम्नलिखित स्थितियों को ध्यान में रखते हुए संवाद–लेखन कीजिए–  
(क) 'लड़कियों के लिए शिक्षा उचित या अनुचित' विषय पर दो मित्रों के बीच संवाद ।  
(ख) 'सब्जीमंडी में सब्जियों के मूल्य में वृद्धि' पर दो महिलाओं के बीच संवाद ।  
(ग) अध्यापक और विद्यार्थी के बीच शिक्षा के गिरते स्तर पर संवाद ।
- आप किसी स्थान पर घुमने गए, वहाँ की यादों को आधार बनाकर एक यात्रा–वृत्तांत लिखिए ।
- आपके नगर या गाँव में किसी समस्या को आधार बनाकर नगरपालिका अध्यक्ष को पत्र लिखिए ।
- आपने छुट्टियों में कौन–सी पुस्तक पढ़ी? उस पुस्तक में आपको क्या अच्छा लगा, लिखिए ।

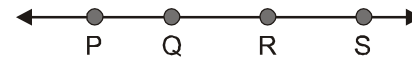
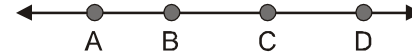
(i)

### MATHS

#### Instructions:

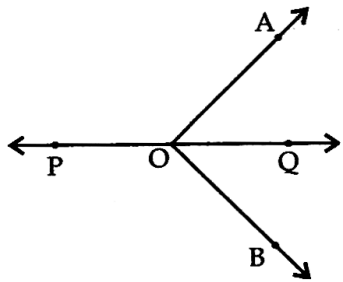
- \* Construct the figures / diagrams using pencil and ruler/scale.
- \* Test will be held after holidays from the question given in holidays home work.

- Insert four rational numbers between  $\frac{5}{4}$  and  $\frac{5}{6}$ .
- Express the number  $0.2\overline{45}$  in the form  $\frac{p}{q}$ , where p and q are integers,  $q \neq 0$ .
- Insert four irrational numbers between  $3\sqrt{2}$  and  $2\sqrt{3}$ .
- Represent the numbers  $-1.5$  and  $2 + \sqrt{2}$  on the number line in the same diagram.
- Represent geometrically the number  $\sqrt{8.1}$  on the number line.
- If a and b are rational numbers and  $\frac{6}{3\sqrt{2}-2\sqrt{3}} = a\sqrt{2}-b\sqrt{3}$ , then find the values of a and b.
- Arrange the following numbers in ascending order:  
 $\sqrt{2}, \sqrt[3]{4}, \sqrt[4]{5}, \sqrt[4]{3}$
- In the adjoining figure, If  $AB = CD$ , then prove that  $AC = BD$ .
- In the adjoining figure, if  $PQ = QR = RS$  then prove that  $PQ = \frac{1}{3}PS$ .



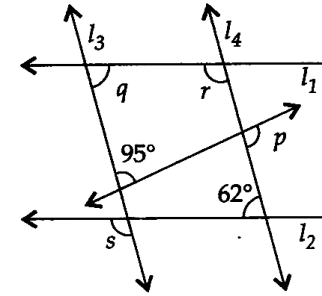
(ii)

10. Why is axiom 5, in the list of Euclid's axioms, considered a universal truth?
11. It is known that  $x + y = 10$  and  $x = z$ . Show that  $y + z = 10$ .
12. **Fill in the blanks:**
- (a) Euclid's 4th axiom "Things which coincide with one another are equal to one another" seems to say that if two things are identical, then they are .....in all respects.
- (b) Euclid's 5th axiom "The whole is greater than the part" gives us the definition of "....."
- (c) The statements which are 'obvious universal truths' are called ..... or .....
- (e) The assumptions which are specifically linked to geometry are called .....
13. **True/False: (Justify your answer)**
- (a) In geometry, we take a point, a line and a plane as undefined terms.
- (b) The Euclidean geometry is valid only for figures in a plane.
- (c) The whole is smaller than the part.
- (d) The boundaries of the solids are curves.
14. In the adjoining figure, OQ bisects  $\angle AOB$ . OP is a ray opposite to ray OQ. Prove that  $\angle POA = \angle POB$ .



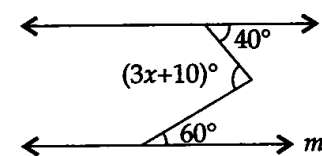
15. In the figure (i) given below  $I_1 \parallel I_2$  and  $I_3 \parallel I_4$ . Find the values of p, q, r and s.

(iii)



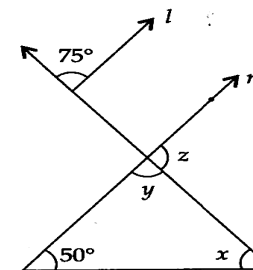
(i)

16. In the figure (i) given below,  $l \parallel m$ . Find the value of x.



(i)

17. In the figure (i) given below, ray I and M are parallel. Find the values of x, y and z.

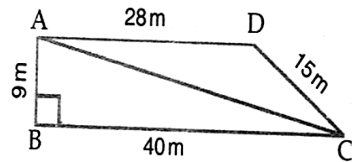


(i)

(iv)

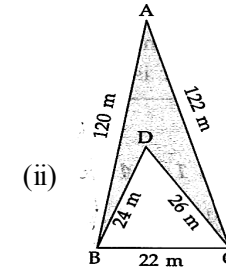
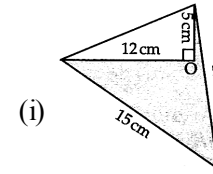
18. Without plotting the points indicate the quadrant they will lie, if:  
 (a) Ordinate is 5 and abscissa is -3      (b) Abscissa is -5 and ordinate is -3  
 (c) Abscissa is -5 and ordinate is 3      (d) Ordinate is 5 and abscissa is 3
19. The perpendicular distance of a point from the  $x$ -axis is 2 units and the perpendicular distance from the  $y$ -axis is 3 units. Write the coordinates of the point if it lies in:  
 (a) I quadrant      (b) II quadrant  
 (c) III quadrant      (d) IV quadrant

20. Plot the point  $P(-3, 4)$ . Draw  $PM$  and  $PN$  perpendiculars to  $x$ -axis and  $y$ -axis respectively. State the coordinates of the points  $M$  and  $N$ .
21. Plot the points  $A(1, 2)$ ,  $B(2, -1)$  and  $C(-1, 4)$  and check whether they are collinear or not.
22. Plot the points  $A(1, 2)$ ,  $B(-4, 2)$ ,  $C(-4, 1)$  and  $D(1, -1)$ . What kind of quadrilateral is  $ABCD$ ? Also find the area of the quadrilateral  $ABCD$ .
23. Three vertices of a square are  $A(2, 3)$ ,  $B(-3, 3)$  and  $C(-3, -2)$ . Plot these points on a graph paper and hence use it to find the coordinates of the fourth vertex. Also find the area of the square.
24. Student of a school staged a rally for cleanliness campaign. They walked through the lanes in two groups. One group walked through the lanes  $AB$ ,  $BC$  and  $CA$ ; while the other through  $AC$ ,  $CD$  and  $DA$  (shown in the adjoining figure). They cleaned the area enclosed within their lanes.

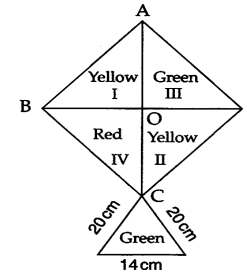


If  $AB = 9$  m,  $BC = 40$  m,  $CD = 15$  m,  $DA = 28$  m and  $\angle B = 90^\circ$ , which group cleaned more area and by how much? Find the total cleaned by the students (neglecting the width of the lanes). What value is reflected in the question?

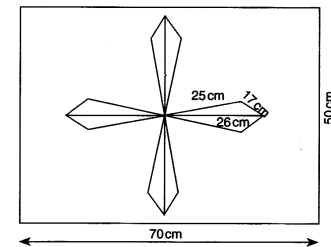
25. The perimeter of a triangular field is 420 m and its sides are in the ratio 6 : 7 : 8. Find the area of the triangular field.
26. The base of an isosceles triangle is 24 cm and its area is  $60 \text{ cm}^2$ . Find its perimeter (use Heron's formula).
27. (b) Find the area of the shaded region in figure (i) given below:  
 (b) Find the area of the shaded region in figure (ii) given below.



28. How much paper of each shade is needed to make a kite given in the adjoining figure, in which  $ABCD$  is a square with diagonal 44 cm?



29. A design is made on a rectangular tile of dimensions  $70 \text{ cm} \times 50 \text{ cm}$  as shown in the adjoining figure. The design shows 8 triangles, each of sides 26 cm, 17 cm and 25 cm. Find the total area of the design and the remaining area of the tile.



**COMPUTER**

1. Draw a chart on the given topic:
  - Roll No. 1- 8 : OpenOffice.org Writer window
  - Roll No. 9-16 : OpenOffice.org Impress window
  - Roll No. 17-24 : OpenOffice.org Calc window
  - Roll No. 25-33 : Types of Networks
  - Roll No. 33 Onwards : Operating System windows7 desktop and icons
2. Learn chapter 1 to 4 complete for test
3. Make an Article on the given topic with the help of newspaper, magazine, internet, books etc.
  - Roll No. 1- 15 : Mail Merge
  - Roll No. 16 - 31 : Benefits of ICT
  - Roll No. 31 onwards : Careers in IT
4. Pre - Reading and Underline.  
Students read the 5th and 6th chapter carefully and underline the difficult words, and write the meaning in book.
5. Exercise: Solve all the application oriented questions of chapters 1 to 4 in fair note book.

**SCIENCE**

1. Pre - read and find meaning of difficult words of chapter - Tissue (Animal Tissue) Ch - Gravitation.
2. Learn chapter - Tissue ( Plant Tissue) Ch - Force and Laws of Motion.
3. Prepare a report on culturing of Honey Bee, Fishes, Poultry, Cattles on A4 size sheet.
4. Complete lab manual of Physics, Chemistry, Biology as per instruction given by the subject teacher.
5. Prepare chart/article on any science topic on A4 size sheet.

**SOCIAL SCI.**

1. To read the following chapters & frame 50 (Very Short Answer) questions from each lesson
  - a. Physical Features of India
  - b. Drainage
  - c. The French Revolution
2. To write 10 News headlines daily based on- International, National Politics, State Politics, Sports.
3. To plant 10 seedlings (Plants) in your surrounding area and bring selfie of this activity.
4. To make a project on - Factors of production and process of production nearby factory or field.