

NARAKE'S PANHALA PUBLIC SCHOOL & JUNIOR COLLEGE, PANHALA

Kolhapur's First English Medium Residential School

Class 9

1.English

2. Science

3. Mathematics

4. Social Science

5. Marathi

6. Hindi

WRITING SKILL

1. Informal Letter Writing : Write a letter to your father on '*Father's Day*' highlighting your love, respect and admiration for him.

2. Informal Letter Writing : Your Pen Pal from Moscow is coming to India for a student exchange programme. He is a bit worried about staying in India as he has heard stories about Indian magicians, snake charmers, superstitions, lack of sanitation etc.

Write a letter to him informing him how India has progressed and is now one of the advanced countries of the world.

3. Speech Writing: You are the Head Boy/Girl of New Public School, Rajguru Nagar, Satara. You are asked to deliver a speech on the occasion of the 'Independence Day' on the topic "*What can I do for my Country*". Write the speech in about 150 words.

CREATIVE WRITING

4. Developing a Story : Using the given hints write an interesting story in about 150 words.

Dark night- quiet jungle- sound of the footsteps -followed foot prints
trail-reached lonely house-hidden among trees-opened the door- entered-
shocked to see.....

5. Narrating an Experience : Narrate an experience when you became the laughing stock of your friends , in about 100-120 words with the help of following ending.

..... I was so relieved that the situation was not as serious as
I had imagined.

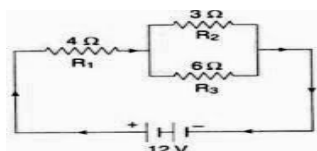
Q 1] Answer the following in one sentences:

- 1) What is Scalar Quantity?
- 2) When is acceleration said to be positive?
- 3) What kind of force keeps the body at rest?
- 4) Various forms of energy?
- 5) The relationship between 1 Joule and 1 Erg .
- 6) What is lightning?

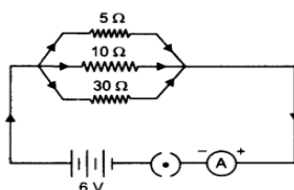
Q 2] Show formation of Potassium Chloride by drawing a figure of the electronic configuration by drawing a figure of the electronic Configuration.

Q 3] Find the total resistance in the circuit.

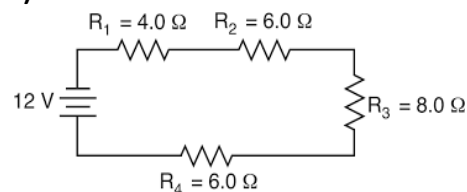
a)



b)



c)



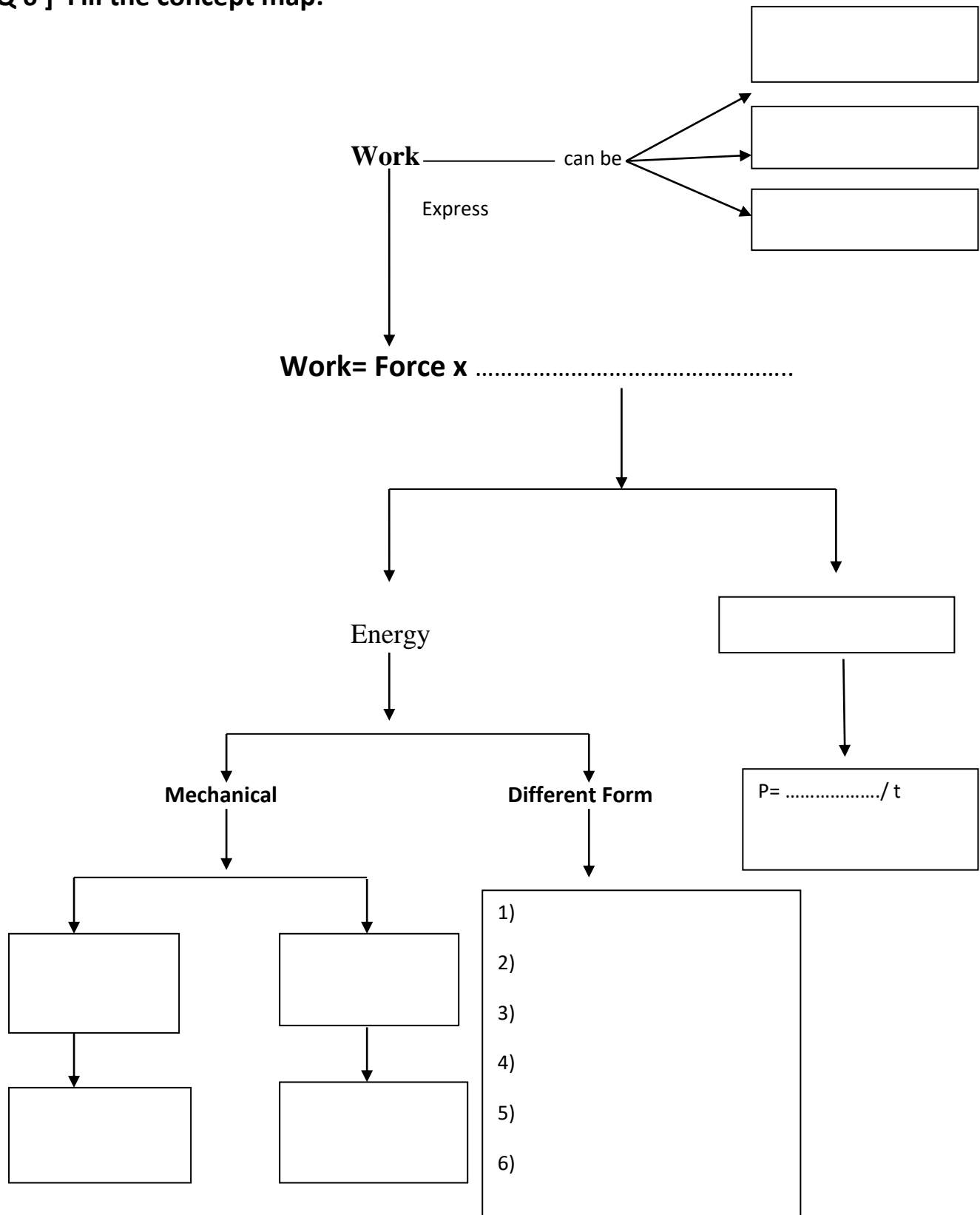
Q 4] Complete the following Chart.

Sr.No	Elements	Atomic Number	Electronic configuration	Valence Electrons	Valency
1	Lithium				
2	Beryllium				
3	Boron				
4	Carbon				
5	Nitrogen				
6	Oxygen				
7	Neon				
8	Sodium				
9	Silicon				
10	Magnesium				

Q 5] Classify the following oxides into three types and name the types.

CaO , MgO, CO₂, SO₃, Na₂O , ZnO, Al₂O₃ and Fe₂O₃.

Q 6] Fill the concept map:



Mathematics

Work sheet No 1

Assignment No. 1

Q. 1. State the order of surds given bellow:

i) $\sqrt{8}$

ii) $6\sqrt{10}$

iii) $\sqrt[3]{9}$

iv) $\sqrt[5]{100}$

Q. 2. State which of the following are surds. Justify:

i) $\sqrt[3]{51}$

ii) $\sqrt{225}$

iii) $\sqrt[3]{81}$

Q. 3. Convert into like surds:

i) $\sqrt{52}$, $5\sqrt{13}$

ii) $\sqrt{48}$, $5\sqrt{3}$

iii) $4\sqrt{18}$, $3\sqrt{8}$

Q. 4. Simplify:

i) $5\sqrt{3} + \sqrt{108}$

ii) $9\sqrt{5} - 4\sqrt{5} + \sqrt{125}$

iii) $3\sqrt{2} \times \sqrt{18}$

iv) $\sqrt{98} \div \sqrt{2}$

Q. 5. Show that $4\sqrt{2}$ is an irrational number.

Assignment No. 2

Q. 1. Classify the decimal forms of the given rational numbers into *terminating* and *non-terminating recurring* type:

i) $\frac{17}{5}$

ii) $\frac{4}{13}$

iii) $\frac{17}{125}$

iv) $\frac{13}{6}$

Q. 2. Write the following rational numbers in decimal form:

i) $\frac{125}{100000}$

ii) $\frac{25}{99}$

iii) $\frac{23}{7}$

iv) $\frac{6}{5}$

Q. 3. Write the following rational numbers in $\frac{p}{q}$ form:

i) $0.\dot{3}$

ii) $0.\overline{47}$

iii) $18.\overline{79}$

iv) $5.\overline{638}$

Q. 4. Write any three rational numbers between the two numbers given below.

i) 5.2 and 5.3

ii) -4.5 and -4.6

Q.5. Show $\sqrt{2}$, $-\sqrt{2}$ and $\sqrt{3}$ on number line.

Assignment No. 3

Q. 1. State whether the given algebraic expressions are polynomials:

i) $2m^{-2} + 7m - 5$ ii) $\frac{-3}{2} + n - \sqrt{3} n^3$

Q. 2. Write the polynomial in standard form:

i) (1, 2, 3) ii) (-5, 0, 8, -10, 0, 3) iii) (-2, 2, -2, 2)

Q. 3. Write the degree of given polynomials :

i) $2x^2 + 8x^3 - 3x^5$ ii) $m^3 + 7m^2 + \frac{5}{2}m - 3x^4$ iii) $y^3 - 5^7$

Q. 4. Write : i) a monomial with degree 5

ii) a trinomial with degree 99

Assignment No. 4

Q. 1. Add : $3m^2n + 5mn^2 - 7mn$ and $2m^2n - mn^2 + mn$

Q. 2. Subtract : $5a^2 - 7a$ from $7a^2 + 5a - 6$

Q. 3. Multiply : $(-5y + 8)(-9 - 3y)$

Q. 4. Divide : $(5b^5 + 4b^4 - 3b^3 + 2b^2 + 2)$ by $(b^2 - b)$

Q. 5. Find the value of $p(y) = 2y^3 - 2y + \sqrt{7}$ for $y = 2$

Solve the following questions

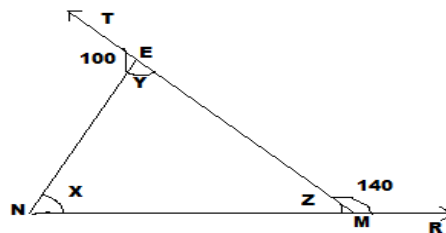
Q1) Prove that the sum of exterior angles of a triangle, obtained by extending its sides in the same direction is 360° .

Q2) "The measure of an exterior angle of a triangle is equal to the sum of its remote interior angles." Prove this statement

Q3) The measure of one of the angles of a triangle is twice the measure of its smallest angle and the measure of the other is thrice the measure of the smallest angle. Find the measures of the three angles.

Q4) Note all the test of congruence of triangle with figure

Q5) In figure , measures of some angles are given. Using the measures find the values of x , y , z .



Solve the following questions

Q1) If the co-ordinate of A is x and that of B is y , find $d(A, B)$.

- | | | |
|-----------------------|----------------------|-----------------------|
| (i) $x = 1, y = 7$ | (ii) $x = 6, y = -2$ | (iii) $x = -3, y = 7$ |
| (iv) $x = -4, y = -5$ | (v) $x = -3, y = -6$ | (vi) $x = 4, y = -8$ |

Q2) Write the following statements in 'if-then' form.

- (i) The opposite angles of a parallelogram are congruent.
- (ii) The diagonals of a rectangle are congruent.
- (iii) In an isosceles triangle, the segment joining the vertex and the mid point of the base is perpendicular to the base.

Q3) On a number line, co-ordinates of P, Q, R are 3, -5 and 6 respectively. State with reason whether the following statements are true or false.

- | | |
|-------------------------------------|------------------------------------|
| (i) $d(P, Q) + d(Q, R) = d(P, R)$ | (ii) $d(P, R) + d(R, Q) = d(P, Q)$ |
| (iii) $d(R, P) + d(P, Q) = d(R, Q)$ | (iv) $d(P, Q) - d(P, R) = d(Q, R)$ |

Q4) Write the converse of each of the following statements.

(i) If the sum of measures of angles in a figure is 180° , then the figure is a triangle.

(ii) If the sum of measures of two angles is 900 then they are complement of each other.

(iii) If the corresponding angles formed by a transversal of two lines are congruent then the two lines are parallel.

Q5) Draw a labelled figure showing information in each of the following statements and write the antecedent and the consequent.

(i) Two equilateral triangles are similar.

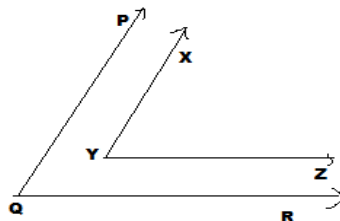
(ii) If angles in a linear pair are congruent then each of them is a right angle.

(iii) If the altitudes drawn on two sides of a triangle are congruent then those two sides are congruent.

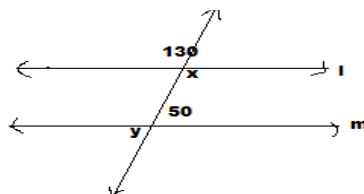
Solve the following questions

Q1) Draw the neat labeled diagram of parallel line and their transversal and note the pair of angles formed by them and their properties.

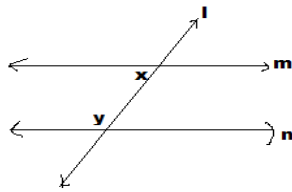
Q2) In figure 2.8, sides of $\angle PQR$ and $\angle XYZ$ are parallel to each other. Prove that, $\angle PQR \cong \angle XYZ$



Q3) . In figure 2.24, measures of some angles are shown. Using the measures find the measures of $\angle x$ and $\angle y$ and hence show that line $l \parallel$ line m .



Q4) In figure , $y = 108^\circ$ and $x = 71^\circ$ Are the lines m and n parallel ? Justify ?



Q5) Prove that, if a line is perpendicular to one of the two parallel lines, then it is perpendicular to the other line also.

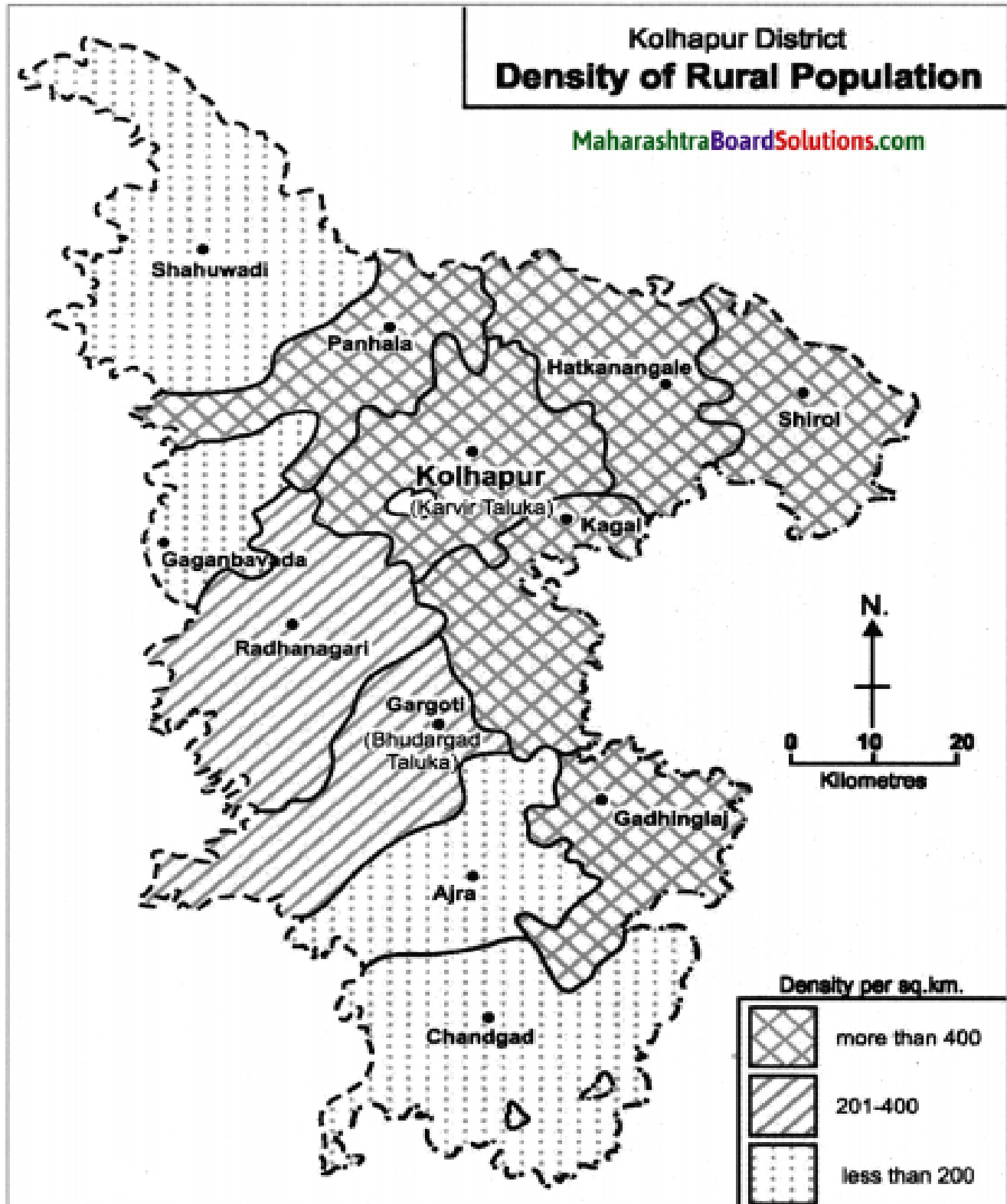
Social Science

Work sheet No 1

Q. 1. Study the following map and answer the given questions below.

Kolhapur District Density of Rural Population

MaharashtraBoardSolutions.com



Density of Population

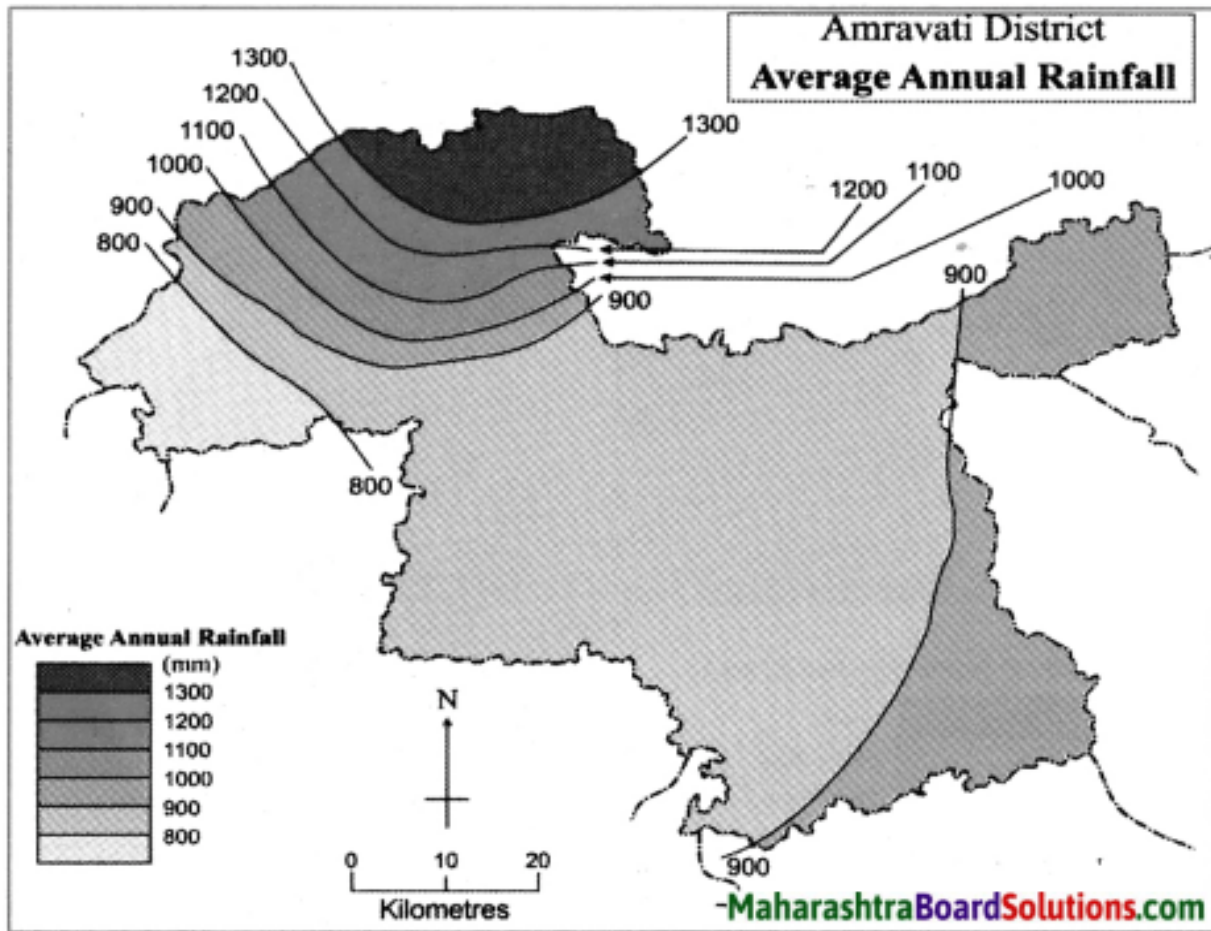
1. Which Geographical variable is shown in the map?

2. In which region and tahasils of the map shows highest population and how much is it?

3. In which region and tahasils of the map shows lowest population and how much is it?

4. Write the distribution of population according to the directions?
(East, West, South, North)

Q. 2. Elaborate the following Diagram in your words.



Rainfall map of Amravati district

Q. 3. How can the sinkhole be formed?

Q. 4. How can the sea arch be formed?

Q. 5. How can the Mashroom rock be formed?

Q. 6. Define weathering and erosion?

History Project Any two

- Q1 Create a hand written account or a documentary about your school.
- Q.2 Watch the different documentaries available on the official website of the Archeological Survey of India, an organization under the Government of India.
- Q.3 Find some information about Indian soldiers who bravely fought in the India- Pakistan war of 1965.
- Q.4 Collect picture of the brave soldiers of Kargil war.
- Q.5 Collect picture of all the Indian Prime Minister till date.
- Q.6 Collect some informations about Dr. Homi Bhabha Atomic Research Centre.

Political science Project. any one

- Q.1 Explain with examples how different nations in the world are dependent on each other.
- Q.2 Find some information about the countries with whom India had trade relations in Ancient times.

Marathi

Work sheet No 1

प्रश्न 1) भाजीमार्केट मध्ये राजू आणि संजू बऱ्याच दिवसातून भेटले आहेत या दोघातील संवाद तयार करा

संज्ञः

राजू:.....

संज्ञः

राजू:.....

संज्ञ:

राजू :

संज्ञः

राजू:

संज्ञः

राज्य :

संज :

राज:

संज्ञः

राजू :

संज्ञ:

राज्य:

संज्ञः

राजू:

संज्ञः

राजू:

संजू:

राजू:

संज्ञः

प्रश्न 2) खाली दिलेल्या विषया वर जाहिरात करा.

“आशीर्वाद मेडीकल”

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प्रश्न 1) खालील विषयावरून वृत्तांत लेखन पूर्ण करा.

“नरके पन्हाळा पब्लिक स्कूल” मध्ये “गांधी जयंती” व “लाल बहादूर” शास्त्री जयंतीनिमित्त स्वच्छता अभियान कार्यक्रम राबवण्यात आला त्याचा वृत्तांत लिहा.

प्रश्न 2) कथा लेखन.

खालील अपूर्ण कथा वाचा. तमुच्या विचार कल्पनेने कथा पूर्ण करा. (उत्तरार्ध लिहा)

२६ जानेवारी, भारताचा गणतंत्र दिन, अर्णव स्वच्छ शालेय गणवेशात तयार होऊन गेला. माननीय प्रमुख पाहुण्यांच्या उपस्थितीत कार्यक्रम सुरु झाला विद्यार्थ्यांनी ध्वजवंदन केले. अध्यक्षीय राष्ट्रगीत, ध्वजगीत, देशभक्तीपर गीत सादर केले, अध्यक्षांच्या प्रेरणादायी भाषणानंतर अर्नावचे देशभक्तीचा संदेश देणारे व देशभक्ता बद्दल कृतज्ञता वेक्त करणारे भाषण झाले. वृक्षारोपण खाऊ वाटप झाल्यानंतर मुली घरी जायला निघाली.

[illegible]

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प्र. 2) निम्नलिखित मुहावरों का अर्थ लिखकर वाक्य में प्रयोग कीजिए ।

- 1) सिर चढ़ जाना
- 2) टूट पड़ना
- 3) व्यस्त होना
- 4) परामर्श देना
- 5) ठग लेना
- 6) हड़प लेना
- 7) नामोनिशान मिट जाना
- 8) हतप्रभ रहना
- 9) दृष्टिगोचर होना
- 10) तसल्ली करना

प्र. 3) निम्न में से किसी एक पत्रका लेखन कीजिए ।

रंजन/ रंजना मांजरेकर; हेमेंद्र कुटीर, सुभाष चंद्र मार्ग, ठाणे से नागपुर में पढ़ रहे अपने छोटे भाई नीरज को परीक्षा की तैयारी हेतु पत्र लिखता / लिखती हैं?

अथवा

शिर्डी का अपूर्व / अपूर्वा कठाले हाईस्कूल परीक्षा में प्रथम आने पर बधाई देते हुए अपने मित्र / सहेली उदय / उदया को पत्र लिखता / लिखती है?

प्र. 4) निम्न में से किसी एक विज्ञापन का लेखन कीजिए ।

निम्न मुद्दों के आधार पर दंत मंजन का विज्ञापन बनाओ।

दंत मंजन दांतों की मजबूती पीलापन हटाना

अथवा

निम्न मुद्दों के आधार पर सौंदर्य साबुन का विज्ञापन तैयार कीजिए ।

सौंदर्य साबुन विशेषताएं छुट