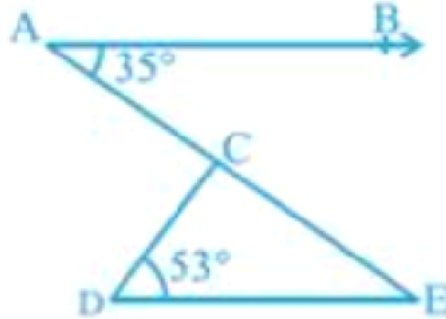


KENDRIYA VIDYALAYA THIRUVANNAMALAI
WINTER BREAK HOLIDAY HOME WORK
22-DEC TO 1ST JAN 2021
CLASS-9

MATHEMATICS

1. In the given figure, if $AB \parallel DE$, $\angle BAC = 35^\circ$ and $\angle CDE = 53^\circ$ find $\angle DCE$.



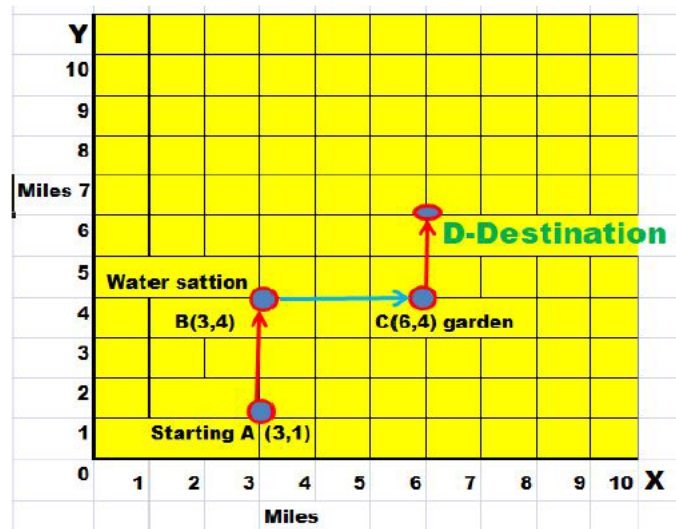
2. Match the following:

Column 1	Column 2
(a) $7.\bar{5}6$	(i) 10
(b) $\sqrt{3}$	(i) 6
(c) The length of the period of $\frac{1}{7}$	(iii) Rational number
(d) The length of the period of $\frac{1}{11}$	(iv) Irrational number

3. Match the following:

Column 1	Column 2
(a) The least prime number is	(i) 4
(b) The least composite number is	(ii) 6
(c) The least whole number is	(iii) 0
(d) The least natural number is	(iv) 1

4. If $x + y = 9$ and $xy = 20$, then find the value of $x^2 + y^2$.



5. Evaluate $(99)^3$ using suitable identity.

6. **Read the Source/Text given below and answer any four questions:** Arun is participating in an 8 miles walk. The organizers used a square coordinate grid to plot the course. The starting point is at A (3, 1). At B (3, 4), there's a water station to make sure the walkers stay hydrated.

From water station, the walkway turns right and at C (6,4) a garden is situated to keep walkers fresh. From the garden, the walkway turns left and finally, Arun reaches at destination D to complete 8 miles.

- i. How far is the water station B from the starting point A?
 - a. 4 miles
 - b. 3 miles
 - c. 1 mile
 - d. 5 miles
- ii. How far is the water station B from garden C?
 - a. 3 miles
 - b. 4 miles
 - c. 1 mile
 - d. 5 miles
- iii. What is the abscissa of destination point D?
 - a. 3
 - b. 5
 - c. 3
 - d. 6
- iv. What is the ordinate of destination point D?
 - a. 3
 - b. 2
 - c. 6
 - d. 5
- v. What are the coordinates of destination point D?
 - a. (5, 6)
 - b. (6, 5)
 - c. (3, 9)
 - d. (6, 6)

7. In countries like USA and Canada, temperature is measured in Fahrenheit, whereas in countries like India, it is measured in Celsius. Here is a linear equation that converts Fahrenheit to Celsius: Draw the graph of the linear equation above using Celsius for x-axis and Fahrenheit for y-axis. If the temperature is 30°C , what is the temperature in Fahrenheit?

If the temperature is 95°F , what is the temperature in Celsius?

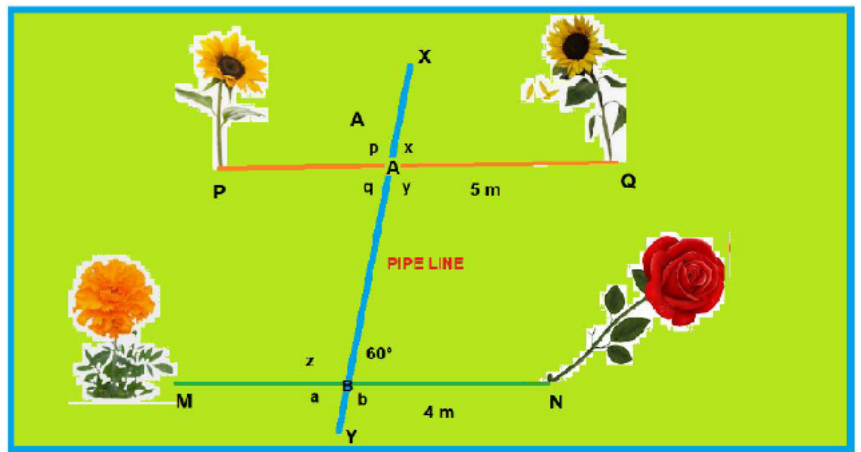
If the temperature is 0°C , what is the temperature in Fahrenheit and

If the temperature is 0°F , what is the temperature in Celsius?

Is there a temperature which is numerically the same in both Fahrenheit and Celsius? If yes, find it.

8. Read the Source/Text given below and answer any four questions:

Once 4 students from class IX F were selected for plantation of flower plants in the school garden. The selected students were Pankaj, Raju, Deepak and Renu.

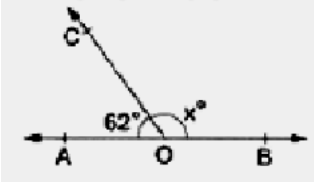


As shown PQ and MN are the parallel lines of the plants. Pankaj planted a sunflower plant at P, then Raju planted another sunflower at Q. Further, Deepak was called to plant any flowering plant at point M. He planted a marigold there. Now it was the turn of Renu, She was told to plant a flowering plant different from the three planted one So she planted a rose plant at N. There was a water pipeline XY which intersects PQ and MN at A and B and $\angle XBN = 60^\circ$

Answer the following questions

- i. What is the value of z?
 - a. 60° b. 120° c. 180° d. 100°
- ii. What is the value of x?
 - a. 60° b. 120° c. 180° d. 100°
- iii. What is the value of $p + q$?
 - a. 60° b. 120° c. 180° d. 100°
- iv. Which angle is the corresponding angle to a?
 - a. z b. p c. b d. q
- v. What is the value of $(p+q+a+z)/6$?
 - a. 60° b. 120° c. 180° d. 100°

9. In the adjoining figure, AOB is a straight line. Find the value of x.



10. Which of the following points lie on the y-axis?

A(1, 1), B(3, 0), C(0, 3), D(0, 0), E(-5, 0), F(0, -1), G(9, 0), H(0, -8).

Class IX Holiday home work for chemistry

1. Why water droplets are formed on the surface of the glass containing ice cold water?
2. How would you confirm that a colourless liquid given to you is pure water?
3. Calculate the mass of
 - a) 0.1 mole of chlorine gas
 - b) 0.1 mole of chlorine atoms
4. Calculate the number of electrons, protons and neutrons in potassium and sodium

केंद्रीय विद्यालय तिरुवन्नामलै (चेन्नई संभाग)

Holiday homework December 2020-21 SANSKRIT

कक्षा - नवीं (class 9th)

विषय - संस्कृत

विषय- अध्यापक मुकेश कुमार(टीजीटी

संस्कृत)

प्रश्न 1 लता और रमा शब्द के रूप लिखिए
प्रश्न 2 कारक के कितने प्रकार होते हैं उनके

नाम लिखिए

प्रश्न 3 लिंग, वचन, विभक्तियों, और पुरुष के

नाम लिखिए

प्रश्न 4 संख्यावाची शब्दा- 50 से 100 तक

संस्कृत गिनती लिखिए

प्रश्न 5 पढ़ाए गए पाठों के कठिन शब्दार्थ

और प्रश्न उत्तर याद कीजिए

ENGLISH

1. You are a member of science club of your school. Your science club would like to procure apparatus for the senior lab. Write a supply order to M/S Ranjeeth Labs, Bangalore to dispatch the goods carefully and ask the firm to realize 15% of concession on total bill as per the laws of purchase by educational institutions.

2. Draft a poster on alarming water pollutions by factories situated nearby water bodies/ rivers in 25-50 words.

3. Prepare a report of analysis from the WHO data on covid-19 patients worldwide and analyze the data in detail which countries are better in reducing the pandemic and also report why other countries fail to do so etc in 150 words.

Note: kindly do all in class work copy for English

HINDI

शीतकालीन गृहकार्य 2020- 21 Winter Break HHW

कक्षा :- नवीं

विषय :- हिंदी (Hindi)

1. एक सेम्पल पेपर को हल करके उसे अपनी कॉपी में करना है। (सेम्पल पेपर आपको 23 दिसम्बर को गूगल क्लास

रूम पर उपलब्ध होगा)

2. प्रत्येक दिन एक पाठ को पढ़ना है और उसके प्रश्नोत्तर याद करने हैं।

3. नैतिकता विषय पर निबंध लिखिए।

Holiday HW for Physics Class 9

Project Work

Make a project on Work and Types of Work (Positive work, Negative work, Zero work)

You can make a chart or working model to show types of work

BIOLOGY

1. Compare prokaryotic cell with eukaryotic cell .

2. Describe the different types of permanent tissues and draw diagrams

3. Mention the location and the function of the following Animal tissues-

a) Ciliated Epithelium

b) Smooth muscle

c) Stratified Squamous epithelium

d) Tendons

e) Aerolar tissue

4. Distinguish between Acute disease and chronic disease

5. How can we save our Planet from Global warming and Severe climate change ?

SST holiday homework

Class9

Long Question

1-What were the social, economic and political conditions in Russia before 1905?

2-Distinguish between north east monsoon and retreating monsoon?

3-What are the functions of constitution?

4-Discuss the major reasons for poverty in India?

Winter Break Holiday Homework

Class - 9th

Subject - Art Education

❖ 2 New year greeting card

❖ 1 Greeting card on Christmas

❖ 1 Drawing on Christmas Day

❖ 2 Design of Kolam or Rangoli

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