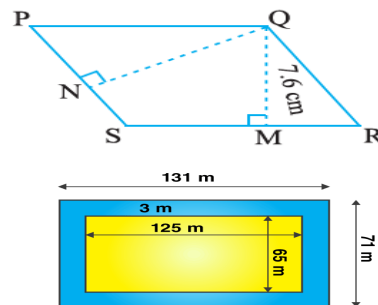


HOLIDAY HOMEWORK WINTER VACATION KV NUBRA

CLASS 7 MATHS

1. List five rational numbers between: -1 and 0
2. PROJECT WORK: Write a paragraph (in not more than 100 words) on “RAMANUJAN - The Great Mathematician”. Write the important contributions of him .
3. Write and Learn multiplication table from 2 to 20.
4. Draw the number line and represent the following rational numbers on it: (i) $\frac{3}{4}$
5. Which of the following pairs represent the same rational number? (i) $(-7/21)$ and $(3/9)$
6. Rewrite the following rational numbers in the simplest form: (i) $-8/6$
7. Find the product: (i) $(9/2) \times (-7/4)$
8. Draw a line, say AB, take a point C outside it. Through C, draw a line parallel to AB using ruler and compasses only.
9. Construct an equilateral triangle of side 5.5 cm.
10. Construct $\triangle DEF$ such that $DE = 5$ cm, $DF = 3$ cm and $m\angle EDF = 90^\circ$.
11. Construct $\triangle PQR$ if $PQ = 5$ cm, $m\angle PQR = 105^\circ$ and $m\angle QRP = 40^\circ$.
12. The Length and the breadth of a rectangular piece of land are 500 m and 300 m, respectively. Find
(i) Its area (ii) the cost of the land, if 1 m^2 of the land costs ₹ 10,000.

13. PQRS is a parallelogram (Fig 11.23). QM is the height from Q to SR and QN is the height from Q to PS. If $SR = 12$ cm and $QM = 7.6$ cm. Find:(a) The area of the parallelogram PQRS (b) QN, if $PS = 8$ cm



14. If the circumference of a circular sheet is 154 m, find its radius. Also find the area of the sheet. (Take $\pi = 22/7$)
15. A 3 m wide path runs outside and around a rectangular park of length 125 m and breadth 65 m. Find the area of the path.
16. Pragya wrapped a cord around a circular pipe of radius 4 cm (adjoining figure) and cut off the length required of the cord. Then she wrapped it around a square box of side 4 cm (also shown). Did she have any cord left? ($\pi = 3.14$)
17. (i) Identify the terms and their factors in the following expressions Show the terms and factors by tree diagrams. (a) $x - 3$
18. (a) Identify terms which contain x and give the coefficient of x. (i) $y^2x + y$ (ii) $13y^2 - 8yx$ (iii) $x + y + 2$
19. Add $a + b - 3$, $b - a + 3$, $a - b + 3$
20. What should be taken away from $3x^2 - 4y^2 + 5xy + 20$ to obtain $-x^2 - y^2 + 6xy + 20$?
21. Simplify the expression and find its value when $a = 5$ and $b = -3$. $2(a^2 + ab) + 3 - ab$
22. Identify the greater number, wherever possible, in each of the following. (i) 4^3 or 3^4
23. Using laws of exponents, simplify and write the answer in exponential form:(i) $3^2 \times 3^4 \times 3^8 \cdot (2^{20} \div 2^{15}) \times 2^3$
24. Write the following numbers in the expanded forms: 279404
25. Find the number from each of the following expanded forms:
26. (a) $(8 \times 10)^4 + (6 \times 10)^3 + (0 \times 10)^2 + (4 \times 10)^1 + (5 \times 10)^0$
27. Express the number appearing in the following statements in standard form.
(a) The distance between Earth and Moon is 384,000,000 m.
28. Complete Ex. 14.1 Q1,Q2, EX. 14.2 Q1,Q2 Complete Ex. 15.1

**HOLIDAY HOMEWORK WINTER VACATION KV NUBRA
CLASS 7 SCIENCE**

29.1 Fill in the blanks.

30. The blood from the heart is transported to all parts of the body by the _____.

31. Haemoglobin is present in _____ cells.

32. Arteries and veins are joined by a network of _____.

33. The rhythmic expansion and contraction of the heart is called the _____.

34. The main excretory product in human beings is _____.

35. Sweat contains water and _____.

36. Kidneys eliminate the waste materials in the liquid form called _____.

37. Water reaches great heights in the trees because of suction pull caused by _____.

38. Why is the transport of materials necessary in a plant or in an animal? Explain.

39. Does transpiration serve any useful function in plants? Explain.

40. Describe the function of the heart.

41. Explain what you understand by sexual reproduction.

42. State the main difference between asexual and sexual reproduction.

43. Sketch the reproductive parts of a flower.

44. Describe the various ways by which seeds are dispersed.

45. Classify the following as motion along a straight line, circular or oscillatory motion:

46. (i) Motion of your hands while running.

47. (ii) Motion of a horse pulling a cart on a straight road.

48. (iii) Motion of a child in a merry-go-round.

49. (iv) Motion of a child on a see-saw.

50. (v) Motion of the hammer of an electric bell.

51. (vi) Motion of a train on a straight bridge.

52. The distance between two stations is 240 km. A train takes 4 hours to cover this distance. Calculate the speed of the train.

53. Salma takes 15 minutes from her house to reach her school on a bicycle. If the bicycle has a speed of 2 m/s, calculate the distance between her house and the school.

54. The bulb in the circuit shown in Fig.14.23 does not glow. Can you identify the problem? Make necessary changes in the circuit to make the bulb glow.

55. When the current is switched on through a wire, a compass needle kept nearby gets deflected from its north-south position. Explain.

56. Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain.

Q8.Prepare innovative projects based on save water ,Save life.

HOLIDAY HOMEWORK WINTER VACATION KV NUBRA
CLASS 7 SOCIAL SCIENCE

1. The Revise that chapters 7, 8,9,10 by writing on the holiday homework copy of each subject History geography and civics.
2. prepare multi disciplinary project and learner's dairy of second term.
3. Solve that at least two samples question paper of East subject of social science given on a CBSE WEBSITES

केंद्रीय विद्यालय नुब्रा
शीतकालीन गृहकार्य
कक्षा - 7 विषय - SANSKRIT

संस्कृत का यह है-

1. Term -2 का MDP project पूरा करें।
2. learner's dairy पूर्ण करें।
3. "विद्या" विषय को लेकर पांच श्लोक अर्थ सहित लिखिए।
4. अर्धवार्षिक परीक्षा का प्रश्न पत्र विस्तार से note book में हल करिए।
5. वाट्सअप की 20 emojis बनाकर उनका नाम हिंदी व संस्कृत में लिखिए।

केंद्रीय विद्यालय नुब्रा
शीतकालीन गृहकार्य
कक्षा - 7 विषय - हिन्दी

1. Term -2 का MDP project पूरा करें।
2. Term - 2 के पाठों का learner's dairy पूर्ण करें।
3. अर्धवार्षिक परीक्षा का प्रश्न पत्र विस्तार से उत्तर पुस्तिका में हल करिए।
4. किन्ही दो लोकगीतों का संकलन कीजिए।
5. 'जीवन में खेल की आवश्यकता' पर एक अनुच्छेद लिखिए।