# HOLIDAY HOMEWORK WINTER VACATION KV NUBRA <br> 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) $3 / 4$
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 $A B$, take a point $C$ outside it. Through $C$, draw a line parallel to $A B$ using ruler and compasses only.
9. Construct an equilateral triangle of side 5.5 cm .
10. Construct $\triangle D E F$ such that $D E=5 \mathrm{~cm}, \mathrm{DF}=\mathbf{3 \mathrm { cm }}$ and $\mathrm{m} \angle E D F=90^{\circ}$.
11. Construct $\triangle P Q R$ if $P Q=5 \mathrm{~cm}, m \angle P Q R=105^{\circ}$ and $m \angle Q R P=40^{\circ}$.
12. The Length and the breadth of a rectangular piece of land are 500 m and $\mathbf{3 0 0} \mathrm{m}$, respectively. Find
(i) Its area (ii) the cost of the land, if $\mathbf{1} \mathbf{m}^{2}$ of the land costs ₹ $\mathbf{1 0 , 0 0 0}$.
13. PQRS is a parallelogram (Fig 11.23). QM is the height from Q to SR and QN is the height from $Q$ to $P S$. If $S R=12 \mathrm{~cm}$ and $Q M=7.6 \mathrm{~cm}$. Find:(a) The area of the parallelogram PQRS (b) QN, if $P S=8 \mathrm{~cm}$

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 $\mathbf{3} \mathbf{m}$ wide path runs outside and around a rectangular park of length $\mathbf{1 2 5} \mathbf{~ m}$ 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) $y^{2} x+y$ (ii) $13 y^{2}-8 y x$ (iii) $x+y+2$
19. Add a + b-3, b-a+3, a-b+3
20. What should be taken away from $3 x^{2}-4 y^{2}+5 x y+20$ to obtain $-x^{2}-y^{2}+6 x y+20$ ?
21. Simplify the expression and find its value when $a=5 a n d b=-3 . \quad 2\left(a^{2}+a b\right)+3-a b$
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) $3^{2} \times 3^{4} \times 3^{8}$ ( $\mathbf{2}^{20} \div 2^{15}$ ) $\times 2^{3}$
24. Write the following numbers in the expanded forms: 279404
25. Find the number from each of the following expanded forms:
26. $(\mathrm{a})(8 \times 10)^{4}+(6 \times 10)^{3}+(0 \times 10)^{2}+(4 \times 10)^{1}+(5 \times 10)^{0}$
27. Express the number appearing in the following statements in standard form.
(a) The distance between Earth and Moon is $384,000,000 \mathrm{~m}$.
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 $\qquad$ .
31. Haemoglobin is present in $\qquad$ cells.
32. Arteries and veins are joined by a network of $\qquad$ .
33. The rhythmic expansion and contraction of the heart is called the $\qquad$ .
34. The main excretory product in human beings is $\qquad$ .
35. Sweat contains water and $\qquad$ .
36. Kidneys eliminate the waste materials in the liquid form called $\qquad$ .
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 $\mathbf{4}$ 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 $2 \mathrm{~m} / \mathrm{s}$, 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.
57. State the characteristics of the image formed by a plane mirror
58. What is a virtual image? Give one situation where a virtual image is formed.
59. State two differences between a convex and a concave lens.
60. David is observing his image in a plane mirror. The distance between the mirror and his image is 4 m . If he moves 1 m towards the mirror, then the distance between David and his image will be
61.3 m (ii) 5 m (iii) 6 m (iv) 8 m
62. A virtual image larger than the object can be produced by a

63 . (i) concave lens (ii) concave mirror (iii) convex mirror (iv) plane mirror
64. Explain how groundwater is recharged.
65. You have been asked to maintain a garden. How will you minimise the use of water?
66. Explain the factors responsible for the depletion of water table.
67. Fill in the blanks with the appropriate answers:
68. (a) People obtain groundwater through $\qquad$ and $\qquad$ .
69. (b) Three forms of water are $\qquad$
$\qquad$ and $\qquad$ .
70. (c) The water bearing layer of the earth is $\qquad$ .
71.(d) The process of water seepage into the ground is called $\qquad$ .
72. Make a sketch showing groundwater and water table. Label it.
73. What are decomposers? Name any two of them. What do they do in the forest?
74. Explain the role of forest in maintaining the balance between oxygen and carbon dioxide in the atmosphere.
75. List five products we get from forests.
76. Why should we worry about the conditions and issues related to forests far from us?
77. What is sewage? Explain why it is harmful to discharge untreated sewage into rivers or seas.
78. Here is a crossword puzzle: Good luck!


> Summer vacation Holidays Home work $$
\text { Class 7th. Subject- English }
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Q1.Write message of the story in your own words.
"A Tiny teacher"
Q2.What would you do if you were in the place of the king"The Three Questions".
Q3.Write central idea of the poem"The Squirrel \& A Gift of chappals".
Q4 Write a letter to your uncle thanking him for his birthday present.
Q5.Read your prescribed lesson and find out 10 new verb also write it's past form \& past participle.
Q6. Read one page from your prescribed prose \& fiction to enrich your reading habit.Make a 1 minute audio listion it again to enrich your listening habits.submit the same.any five.
Q7 Solve the given CCT paper carefully to comprehend the text and develope your creative and critical ability.(sent separately)

Q8.Prepare innovative projects based on save water ,Save life.
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## CLASS 7 SOCIAL SCIENCE

1. The Revice 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।
