

holiday homework

CLASS - VIII

NAME _____





CLASS - VIII
WINTER HOLIDAY HOMEWORK
2022-23

<u>SUBJECT</u>	<u>CONTENT/TOPIC</u>
English (Lang.)	Do the given sheet.
English (Lit.)	Learn the Q/Ans of the following chapters. Write about the authors of the chapters and poem <ul style="list-style-type: none">• Modal Millionaire• The way through the woods• Place of Death,• The Highwayman• Dusk
Hindi (Lang.)	Do the given sheets
Hindi (Lit.)	Learn Ch- “बिंदा” full.
Mathematics	Do the given sheets
Physics	Learn and prepare the Q/Answer of the Ch-Sound
Chemistry	<ul style="list-style-type: none">• Learn the symbols of valency of first 20 elements• Ch-5 “Language of Chemistry”• Practice – Conversion of word equation• Practice – Balancing equations
Biology	Learn Ch-Nervous System Book exercise and practice all diagrams

HCG - I (History/Civics)	Revise Ch-The Great Uprising Revise all the work done in book and notebook
HCG - II (Geography)	Revise map work of ch- India: Geographical features.
G.K.	Go through the Newspaper, Note down 5 current affairs weekly National as well as International (as directed) in your G.K. Notebook.
Computers	Revise Ch – ▶ Visual effects in presentation ▶ Internet online surfing
Sanskrit	“युष्मद्” सर्वनाम रूप याद करें 1 से 70 तक संस्कृत में गिनती याद करें

English Language Holiday Homework

Q1. Change the following into indirect speech.

1. He said to me, "I have often told you not to play with her."

2. They wrote, "It is time we thought about settling this matter."

3. The teacher promised. "If you come to school tomorrow, I will explain it."

4. "What do you want?" he said to her.

5. He said, "How's your father?"

6. "Don't you know the way home?" asked I.

7. "Do you really come from China?" said the Prince.

8. "Sit down, boys," said the teacher.

9. "Run away, children," said the mother.

10. She said to me, "Who taught you English?"

11. He said to his mother, "Why did you not wash my school dress?"

12. The mother said to the child, "Did you have your breakfast?"

13. Anil said to his sister, "How did you fare in the interview?"

14. The policeman asked me, "Had the thief stolen your watch?"

15. We said to them, "Who has misguided you?"

Q2. Change the following sentences to passive voice.

1. She sings a song.

2. Help Suhani.

3. Are you writing a letter?

4. I will finish the task before evening.

5. The boy killed the ant.

6. They took all the necessary precautions.

7. They have informed him of his mother's death,

8. The students did some research on the topic.

9. The car hit the dog.

10. The dolphins have learned many tricks.

Q3. Change the following sentences to active voice.

1. The guitar was played by Lisa.

2. The book is being read by Mary.

3. The rat is eaten by the cat.

4. A washing machine has been bought by him.

5. The lucky draw will be won by him.

6. A stone was being thrown by the man.

7. The door had been locked by someone.

8. A seat was offered to them by her.

9. Some trees have been planted by the gardener.

10. Some advice will be given to you by the doctor.

Q4. Correct the following sentences.

1. The interview will be held between 2 to 4 p.m.

2. The house was besides the river.

3. I have been waiting here since two hours.

4. He walked across the park among the flower beds.

5. I shall be there on 4 p.m. at Friday.

6. He sat upon a chair.

7. The land was ploughed by the help of a tractor.

Q5. Join the following sentences to make one complete sentence without using *and, but* or *so*

1. Bart had to ask for some money for the coffee. He had finished all his money on the taxi.

2. The sun began to dip over the horizon. The birds started to chirp.

3. Homer was the shortest person in the basketball team. He scored the maximum number of points in every game.

4. Lisa continued to play. She felt pain in her right arm.

5. We have to wade through the flooded lane. Alternately, we have to take a long detour.

6. Joining the Indian army has a precondition. You have to live in India.

7. Bart has to complete his homework. He has to do this before going out to play.

8. The Indian economy has become more capitalistic. India opened its economy in 1992.

9. The payment to the vendor was delayed. The invoices were not approved in time.

10. He prepared hard all through the year. He barely secured the pass marks in the exam.

Q6. Read through the following simple sentences and transform them into compound sentences by using appropriate coordinating conjunctions.

1. Following the trail, we reached the destination.

2. Being sick, I went to the doctor.

3. In spite of the rain, the children went out to play.

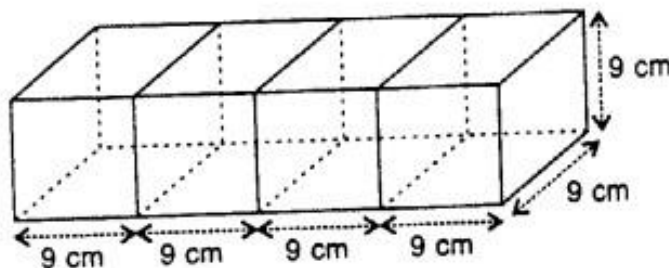
4. Having handed over the flowers to my mom, I hugged her.

5. In the event of you not reaching in time, we will postpone the operation.

Mathematics
Winter Holiday Homework 2022-23

Do 5 Questions each day

1. The length, breadth and height of a cuboid are in the ratio 5 : 3 : 2. If its volume is 240 cm^3 ; find its dimensions. (Dimensions means : its length, breadth and height). Also find the total surface area of the cuboid.
2. The volume of a cuboid is 3456 cm^3 . If its length = 24 cm and breadth = 18 cm ; find its height.
3. The length, breadth and height of a cuboid are in the ratio 6 : 5 : 3. If its total surface area is 504 cm^2 ; find its dimensions. Also, find the volume of the cuboid.
4. Find the volume and total surface area of a cube whose each edge is 8 cm.
5. A solid cuboid of metal has dimensions 24 cm, 18 cm and 4 cm. Find its volume.
6. A solid cube of edge 14 cm is melted down and recasted into smaller and equal cubes each of edge 2 cm; find the number of smaller cubes obtained.
7. A closed box is cuboid in shape with length = 40 cm, breadth = 30 cm and height = 50 cm. It is made of thin metal sheet. Find the cost of metal sheet required to make 20 such boxes, if 1 m^2 of metal sheet costs Rs. 45.
8. Four cubes, each of edge 9 cm, are joined as shown below :



Write the dimensions of the resulting cuboid obtained. Also, find the total surface area and the volume of the resulting cuboid.

9. The length, breadth and height of a room are 6 m, 5.4 m and 4 m respectively. Find the area of :
(a) its four-walls (b) its roof.
10. A Room 5 m long, 4.5 m wide and 3.6 m high has one door 1.5 m by 2.4 m and two windows, each 1 m by 0.75 m. Find :
 - a. The area of its walls, excluding door and windows.
 - b. The cost of distempering its walls at the rate of Rs.4.50 per m^2 .
 - c. The cost of painting its roof at the rate of Rs.9 per m^2 .
11. Find the volume of wood required to make a closed box of external dimensions 80 cm, 75 cm and 60 cm, the thickness of walls of the box being 2 cm throughout.
12. A Tank 30 m long, 24 m wide and 4.5 m deep is to be made. It is open from the top. Find the cost of iron-sheet required, at the rate of Rs. 65 per m^2 , to make the tank.

13. The edges of three solid cubes are 6 cm, 8 cm and 10 cm. These cubes are melted and recast into a single cube. Find the edge of the resulting cube.
14. The capacity of a rectangular tank is 5.2 m^3 and the area of its base is $2.6 \times 10^4 \text{ cm}^2$; find its height (depth).
15. The ratio between the lengths of the edges of two cubes are in the ratio 3 : 2. Find the ratio between their: **(i)** total surface area **(ii)** volume.
16. The length, breadth and height of a cuboid (rectangular solid) are 4 : 3 : 2.
(i) If its surface area is 2548 cm^2 , find its volume.
(ii) If its volume is 3000 m^3 , find its surface area.
17. The height of a circular cylinder is 20 cm and the diameter of its base is 14 cm. Find:
(i) the volume **(ii)** the total surface area.
18. Find the height of the cylinder whose radius is 7 cm and the total surface area is 1100 cm^2 .
19. The curved surface area of a cylinder of height 14 cm is 88 cm^2 . Find the diameter of the base of the cylinder.
20. The ratio between the curved surface area and the total surface area of a cylinder is 1 : 2. Find the ratio between the height and the radius of the cylinder.
21. The total surface area of a cylinder is 6512 cm^2 and the circumference of its bases is 88 cm. Find:
(i) its radius **(ii)** its volume
22. The diameter of a garden roller is 1.4 m and it 2 m long. Find the maximum area covered by it 50 revolutions?
23. In a building, there are 24 cylindrical pillars. For each pillar, radius is 28 m and height is 4 m. Find the total cost of painting the curved surface area of the pillars at the rate of Rs. 8 per m^2 .
24. Use the product $(a + b)(a - b) = a^2 - b^2$ to evaluate:
a. 21×19 **b.** 33×27 **c.** 103×97 **d.** 9.8×10.2
25. Evaluate Using expansion of $(a + b)^2$ or $(a - b)^2$
a. $(208)^2$ **b.** $(92)^2$ **c.** $(415)^2$ **d.** $(188)^2$ **e.** $(9.4)^2$ **f.** $(20.7)^2$
26. If $a^2 + b^2 = 41$ and $ab = 4$, find :
a. $a - b$ **b.** $a + b$
27. The difference between two numbers is 5 and their products is 14. Find the sum between their squares.
28. Factorise : $a^3 - a^2 + a - 1$
29. Factorise : $(a+2b)^2 - a^2$
30. Factorise completely : $3x^2 + 15x - 72$
31. Factorise completely : $3x^2y + 11xy + 6y$
32. Factorise completely : $a^2 + 2ab + b^2 - c^2$
33. Factorise completely : $4a^2 - 12ab + 9b^2 + 4a - 6b$
34. Factorise completely : $a^2 - 16b^2 - 2a - 8b$
35. Solve: $5(8x + 3) = 9(4x + 7)$

36. Solve: $3(x + 1) = 12 + 4(x - 1)$
37. Fifteen less than 4 times a number is 9. Find the number.
38. If Megha's age is increased by three times her age, the result is 60 years. Find her present age.
39. A number decreased by 30 is the same as 14 decreased by 3 times the number; Find the number.
40. Separate 178 into two parts such that the first part is 8 less than twice the second part.
41. Six more than one-fourth of a number is two-fifth of the number. Find the number.
42. The sum of three consecutive odd numbers is 57. Find the numbers.
43. A man's age is three times that of his son, and in twelve years he will be twice as old as his son would be. What are their present ages?
44. A man completed a trip of 136 km in 8 hours. Some part of the trip was covered at 15 km/hr and the remaining at 18 km/hr. Find the part of the trip covered at 18 km/hr.
45. The difference of two numbers is 3 and the difference of their squares is 69. Find the numbers.
46. Two consecutive natural numbers are such that one-fourth of the smaller exceeds one-fifth of the greater by 1. Find the numbers.
47. The present age of a man is twice that of his son. Eight years hence, their ages will be in the ratio 7 : 4. Find their present ages.
48. A Man is 42 years old and his son is 12 years old. In how many years will the age of the son be half the age of the man at that time?
49. A rectangle's length is 5 cm less than twice its width. If the length is decreased by 5 cm and width is increased by 2 cm; the perimeter of the resulting rectangle will be 74 cm. Find the length and the width of the original rectangle.
50. The given figure, ABCD is a parallelogram, $\angle DAC = 67^\circ$ $\angle ABC = 70^\circ$ find the value of $\angle x$, $\angle y$ and $\angle z$.

