



**Bhagwanpur, Lahartara, Suncity, Varuna – Varanasi & Associate Schools**  
**Summer Cool Enjoyment Sheet (2017-18)**  
**Class - X**

***Topic : Puzzles and Crosswords***

Name : \_\_\_\_\_ Sec.: \_\_\_\_\_ Roll No. : \_\_\_\_\_ Date : \_\_\_\_\_  
T. Sign. \_\_\_\_\_

**Puzzle Based Learning is a new teaching and learning methodology that is focused on the development of problem-solving skills.**

A puzzle is a problem or enigma that tests the ingenuity of the solver. In a basic puzzle, one is intended to put together pieces in a logical way in order to come up with the desired solution.



Puzzles and puzzle games help reinforce logic, critical thinking, visualization, creativity, and fine motor skills.

**REBUS PUZZLES**

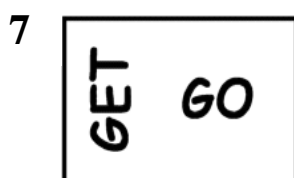
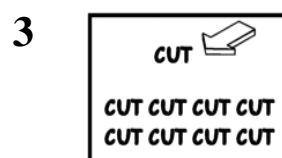
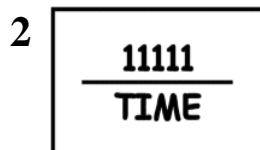
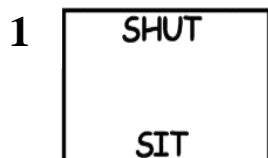
*They are essentially little pictures, often made with letters and words, which cryptically represent a word, phrase, or saying. e.g.:*



Ans. The man in the moon



Ans. First Aid



# WORDOKU

A Wordoku is a Sudoku puzzle that uses words instead of the numbers.

## Across

- 1. Take it easy
- 5. Four-wheeled toy cart
- 10. Rumble
- 14. District
- 15. Small terrestrial lizard
- 16. Ancient Peruvian
- 17. Fraud
- 18. Belonging to a regiment
- 20. A pike with an ax head
- 22. Fabric
- 23. Gorilla
- 24. Small islands
- 25. Laughable
- 32. Wash out with a solvent
- 33. Delete
- 34. Tiny
- 37. Assistant
- 38. 3-banded armadillo
- 39. Piecrust ingredient
- 40. Foot digit
- 41. Muse of love poetry
- 42. Chain of hills
- 43. Jubilation
- 45. Adjust
- 49. How old you are
- 50. Intercede
- 53. Personal journals
- 57. Flood
- 59. Wings
- 60. Storm
- 61. Move forward suddenly
- 62. Exam
- 63. The products of human creativity
- 64. Delineated
- 65. X X X X

1	2	3	4		5	6	7	8	9		10	11	12	13
14					15						16			
17					18					19				
20					21				22					
			23							24				
25	26	27				28	29	30	31					
32						33						34	35	36
37					38						39			
40					41						42			
					43					44				
45	46	47	48						49					
50					51	52		53				54	55	56
57							58				59			
60					61						62			
63					64						65			

## Down

- 1. Whip
- 2. Killer whale
- 3. Loyal (archaic)
- 4. Berate
- 5. A colony of rabbits
- 6. Matured
- 7. Muzzle
- 8. Leave out
- 9. What a person is called
- 10. Makes coins
- 11. Up to
- 12. Climb
- 13. The general activity of selling
- 19. Banish
- 21. Type of sword
- 25. Tidy
- 26. Hodgepodge
- 27. Naked
- 28. Flower part
- 29. Angry

Puzzles are a great way for you to begin learning the scientific method (observe, hypothesize, test, conclude). By taking the time to observe (what is this puzzle?), hypothesize (how am I going to solve this puzzle?), test (now I will solve the puzzle!) and conclude (let's see..... did that work?), you are preparing yourself for more sophisticated applications later in life.

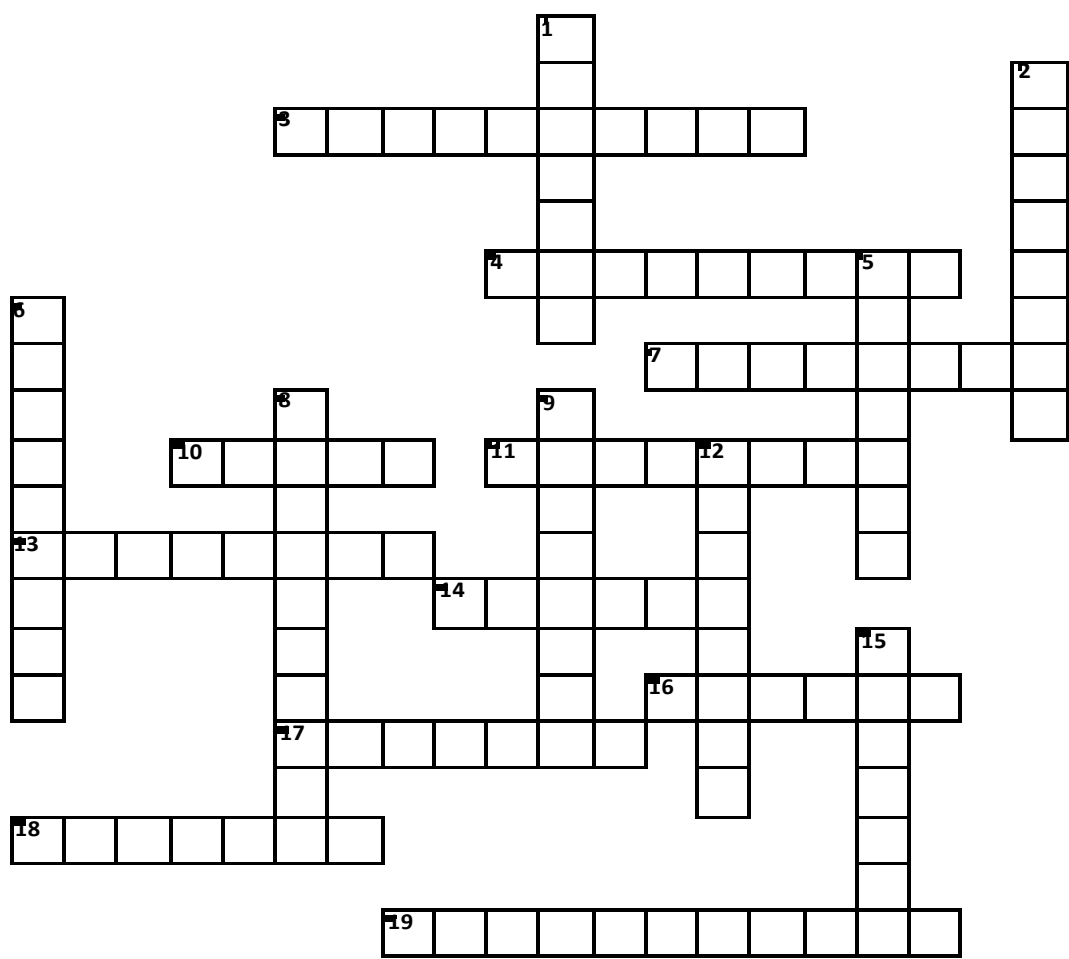
**WORD SEARCH PUZZLE**

Encircle and form words as many as you can and accept the challenge of word puzzle and rate yourself.  
If you can search (42 words) Genius, (35 words) Extraordinary (25 words) Ordinary.

F	U	A	G	R	E	E	D	T	A	C	K	E	D
L	P	U	F	F	S	V	P	S	A	L	L	O	T
O	S	S	E	L	M	I	A	E	S	A	Y	L	D
S	E	C	I	R	O	T	S	I	H	S	F	I	E
S	T	O	T	R	E	A	T	D	E	S	F	S	G
E	P	N	F	D	E	T	A	N	N	I	U	A	L
S	H	I	E	L	D	N	D	A	I	F	L	B	U
L	O	I	H	K	E	E	P	S	F	I	F	P	V
A	L	Y	T	S	A	S	K	I	T	C	O	R	I
P	N	R	R	R	T	E	X	T	R	A	G	E	D
S	Y	G	S	B	W	R	W	I	C	T	K	B	B
I	I	N	S	I	M	P	U	H	F	I	L	E	S
N	W	A	N	T	S	E	B	O	L	O	E	L	D
G	O	G	R	E	S	R	N	E	C	N	I	S	C

**PREFIX & SUFFIX PUZZLE**

Complete the crossword puzzle:



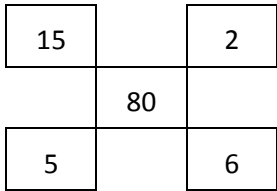
- Across**
- 3 not tolerant
  - 4 full of beauty
  - 7 without tact
  - 10 more nice
  - 11 able to be washed
  - 13 not direct
  - 14 more tall
  - 16 heat again
  - 17 most big
  - 18 more juicy
  - 19 able to have or make comfort

- Down**
- 1 before viewing
  - 2 without harm
  - 5 most ugly
  - 6 not decided
  - 8 able to have or make access
  - 9 without pain
  - 12 most angry
  - 15 full of care

*Mental aptitude is a component of a competency to do a certain kind of work at a certain level, which can also be considered “talent”. Aptitude may be physical or mental. Aptitude is not knowledge, understanding, learned or acquired abilities (skills) or attitude. So let's check your ability of mental aptitude.*

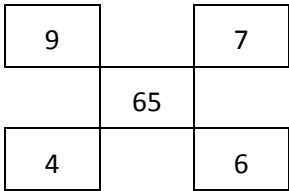
What number should replace the question mark?

(1)

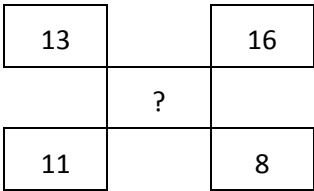


(a) 35

(b) 48

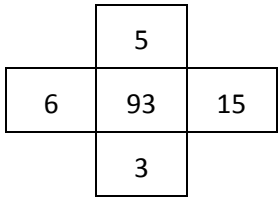


(c) 72



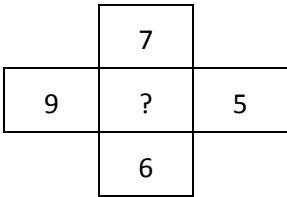
(d) 120

(2)

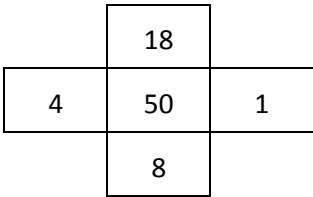


(a) 5

(b) 19

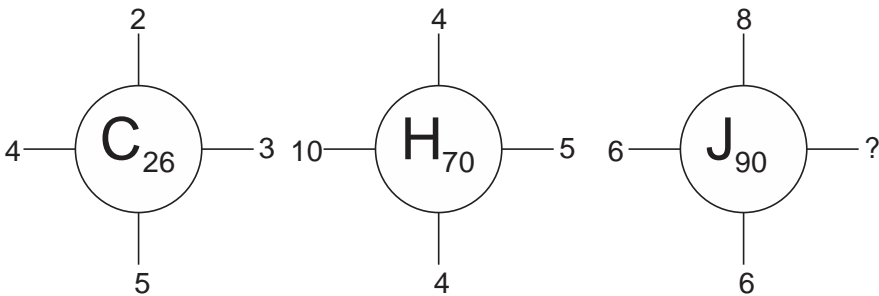


(c) 27



(d) 89

(3)



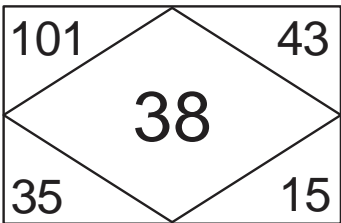
(a) 2

(b) 3

(c) 4

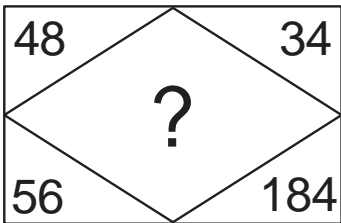
(d) 5

(4)



(a) 127

(b) 142



(c) 158

(d) 198

(5) Brain Twister Puzzle

2 + 3 = 8,  
3 + 7 = 27,  
4 + 5 = 32,  
5 + 8 = 60,  
6 + 7 = 72,  
7 + 8 = ??  
Solve it?

Many of the puzzles found in games are challenging and require repeated attempts in order to solve. The persistence needed to return to challenging puzzles after repeated failures, is a great lesson for you.

What number should replace the question mark?

(6)

47

55

63

85

92

99

73

?

25

(7)

7

9

2

8

2

7

8

4

5

6

?

9

What number should replace the question mark?

(8)

268

11

359

516

263

16

17

?

(9)

32

3

7

21

9

2

?

4

8

- (10)    **Unlock The Distance Puzzle**  
Distances from you to certain cities are written below.  
**BERLIN** 200 miles  
**PARIS** 300 miles  
**ROME** 400 miles **AMSTERDAM** 300 miles  
**CARDIFF** ??? miles  
How far should it be to Cardiff ?

What number should replace the question mark?

(11)

4	2	2	2
3	1	1	4
3	2	1	5
2	3	4	?

(12)

?

1

15

3

21

6

28

- (13)    What goes into the empty brackets?

2 | 38 | 3

4 | 1524 | 5

6 | 3548 | 7

8 |       | 9

It's really true-if at first  
you don't succeed, try  
and try again.

- (14)    In a row of boys, A is fifteenth from the left and B is fourth from the right. There are three boys between A and B. C is just left of A. What is C's position from the right?  
(a) 9<sup>th</sup>                      (b) 10<sup>th</sup>                      (c) 12<sup>th</sup>                      (d) 13<sup>th</sup>
- (15)    Rohit is seventeenth from the left end of a row of 29 boys and Karan is seventeenth from the right end in the same row. How many boys are there between them in the row?  
(a) 3                      (b) 5                      (c) 6                      (d) Data inadequate

# **Holiday Home Work** **INTERDISCIPLINARY PROJECT**

<b>TASK</b>	INTERDISCIPLINARY PROJECT			
<b>TOPIC</b>	TECHNOLOGY-A PANACEA			
<b>GENERAL GUIDELINES</b>	1. A single report file to be made for all the subjects.			
	2. The first page of the report file will have the following descriptions; NAME: CLASS/SEC: ROLL NO: SESSION:			
	SUBJECT	PAGE NO	Marks to be filled by teacher	Teacher's sign
	English			
	Hindi/sanskrit			
	Math			
	Science			
	Social sciences			
3. The second page will have acknowledgement. Mention the list of websites, books referred etc.				
4. Arrange the A4 size sheets of respective subjects in the order given.				

Subject	Description	Specific Guidelines
English	Technology For Better Life	Article (350-400 words) The article should include the following points: (i) Different kinds of modern appliances being used in homes. (ii) The latest entertainment technology. (iii) How can technology help us to communicate with others? (iv) Computer and other smart machines. (v) The advantages of using these technological advancements. (vi) Comparison with times when these technologies were not available. (vii) Technological advancements in the field of Health & Medicine.
Hindi/French/Sanskrit		^Hkkjrh; laL—fr ds fodkl esa rdudh IH;rk dk ;ksxnku* & bl fo"k; ij lfp= vuqPNsn ys[ku dk;ZA La technologie d'information et d'aviation de France ^vkpk;Z & vk;ZHkVL; vUos"k.ke~ thou ifjp;% p*A bR;fLeu~ fo"k;s n'kokD;ifjfer~ ,de~ vuqPNsna fy[krA
Maths		Do a survey of five families in your locality using 2G and 3G net work of different service providers and prepare a data and represent the data by a histogram. Write your conclusion also.
Physics	Case Study	Case study students to collect information of electricity distribution system of their city from the nearest power plant. <b>Notes:</b> • Students must cover the role of potential difference (voltage), resistance, transformers, sub-stations material uses for transmission, supply for heavy industries, out type of power plants. Also make a schematic. Diagram for the same.
Chemistry	Technologies	Many reactions are being carried out for the benefit of mankind. (i) Mention and explain the application of different type of reactions used in various techniques or technology. (ii) Find out and explain the synthesis and application of some common medicines eg. antioxidant, chloroform, tincture of iodine aspirin, ant-acids.
Biology	Life Processes	Write a report on structure working and importance of any two of the techniques in maintaining the life processes in human beings. (i) ECG (ii) DIALATOR (iii) USG (iv) MRI Give data, paste pictures and draw diagrams where ever possible.
Social studies	Disaster Management & Technology	<ul style="list-style-type: none"> <li>Natural catastrophe &amp; Harnessing Technology</li> <li>Application of IT for Disaster Reduction</li> <li>World Meteorological organization on disaster reduction worldwide</li> <li>Natural Resources Management &amp; Environmental Monitoring</li> <li>Disaster Recovery Planning &amp; Risk Management using Technology</li> </ul> <b>Table of Contents</b> <ul style="list-style-type: none"> <li>Introduction – 1 pg</li> <li>Photo Gallery – 1 pg</li> <li>Content – 2 pg</li> <li>Conclusion – 1 pg</li> </ul>

**Refer to Precept for explanation of the Interdisciplinary Project.**

**English :** Read Ch. 5 to 10 from The Story of My Life.

**French :** Design a publicity for a house or a vehicle.

**Maths :** Logical Reasoning Questions given in Pg. 134-139 in Learners Comate Book-I should be completed.

*To be Submitted on 30<sup>th</sup> June 2017.*