



Education Department, UT Chandigarh

# *Critical and Creative Thinking*

*English Practice Booklet*  
**Class: 8**



राज्य शैक्षिक अनुसंधान और प्रशिक्षण परिषद्  
STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING  
SECTOR-32 UT CHANDIGARH



# Websites/links to download CCT Resource Material

## CCT Tracker:

- URL: <https://pisa.diksha.gov.in>
- User Id: utcschools
- Password: Utcschools@01

## SE Shagun Portal:

- <http://pisa.seshagun.gov.in/codes.html>
- <http://pisa.seshagun.gov.in/?AspxAutoDetectCookieSupport=1>
- <http://pisa.seshagun.gov.in/cct/>

## DIKSHA:

- <http://diksha.gov.in>
- QR code and link for CCT Weekly- R5Z7P5
- <https://diksha.gov.in/get/dial/R5Z7P5>

## OECD – PISA:

- <https://www.oecd.org/pisa/>
- <https://www.oecd.org/pisa/publications/>

## **Learning Outcomes of the practice booklet:**

### **The learner will be able to**

- i. Locate information: The questions asked will enable the learner to locate the required information.
- ii. Identify the main idea
- iii. Select relevant information
- iv. Process information in logical manner
- v. Reflect on the content of the passage
- vi. Interpret the text: the learners will be able to comprehend the literal and inferred meaning, identifying the main idea of text or paragraphs, and guess vocabulary from context.
- vii. Present viewpoints: The learner will be able to connect this information with his/her previous information and form individual viewpoints.
- viii. The learner will develop key reading sub-skills such as skimming and scanning
- ix. Personalize and ask compelling questions
- x. Enjoy inputs in the given contexts to understand, infer, interpret and appreciate.
- xi. Learn uses of language in different perspectives.
- xii. Read stories and literary texts-both fiction and non-fiction with understanding for pleasure and enjoyment.
- xiii. Correlate the text with his personal life experience.
- xiv. Evaluate the text, understands and develops moral sense of right and wrong to be a good human being.
- xv. Collect evidences and discusses for reading autobiographies, history and science based texts.
- xvi. Analyze and appreciates the point of view reflected in the text.
- xvii. Consult /refer to dictionary and books for academic and other purposes.
- xviii. Identify and uses the significant literary figurative meaning of words and phrases given in the text to enhance his vocabulary.

### **LEARNING COMPETENCIES:**

- Problem Solving
- Critical Thinking
- Communication
- Creative Thinking
- Rational Thinking
- Reasoning
- Interpersonal skills
- Self-learning

### **LEARNING DIMENSIONS:**

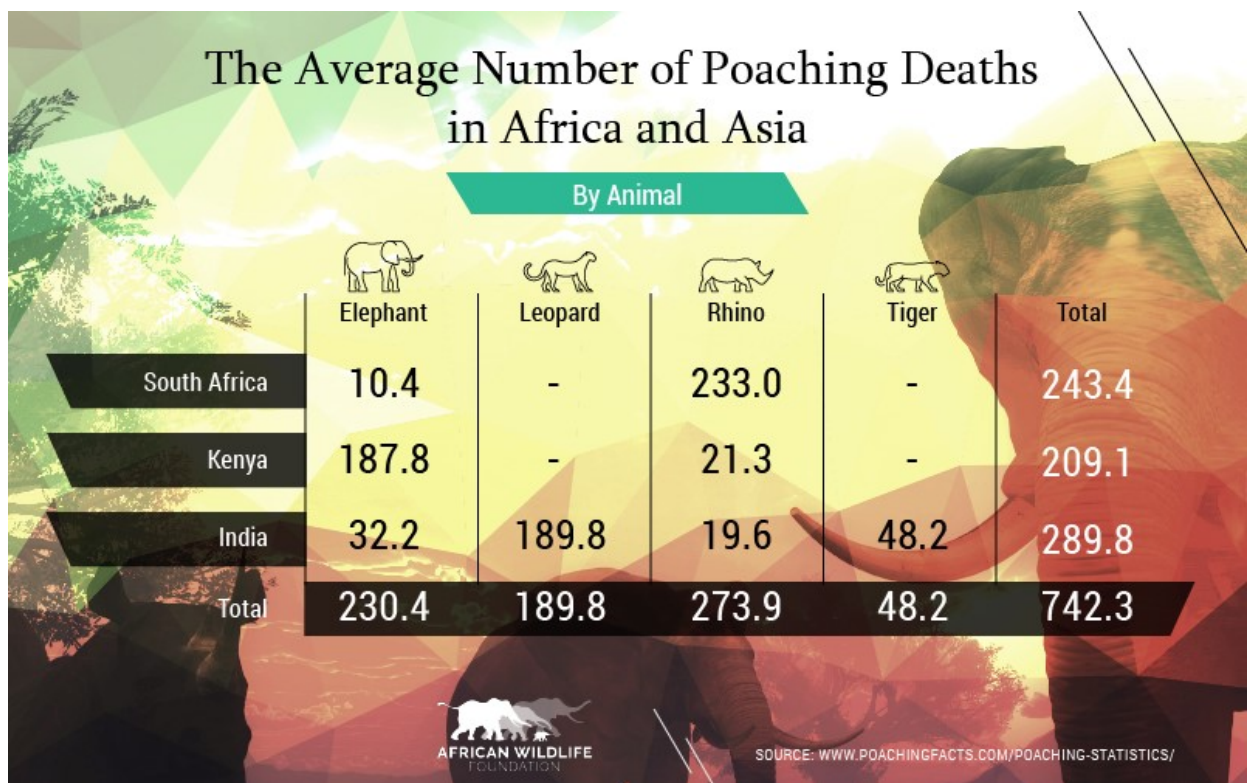
- Mathematical
- Scientific
- Global dimensions
- Demographic
- Cultural dimension
- Moral
- Experiential

## WORKSHEET 1

Across the globe, poaching is roundly reviled. Even legally sanctioned hunting of species has prompted an international outcry in recent years. Few understand the true scale of the problem, which persists despite escalating enforcement efforts.

In Africa alone, thousands of endangered animals die every year, killed by criminal syndicates eager to sell the spoils of their slaughter abroad. These groups strive to silence those who seek to expose their efforts, adding the assassination of conservationists to their lengthy list of crimes.

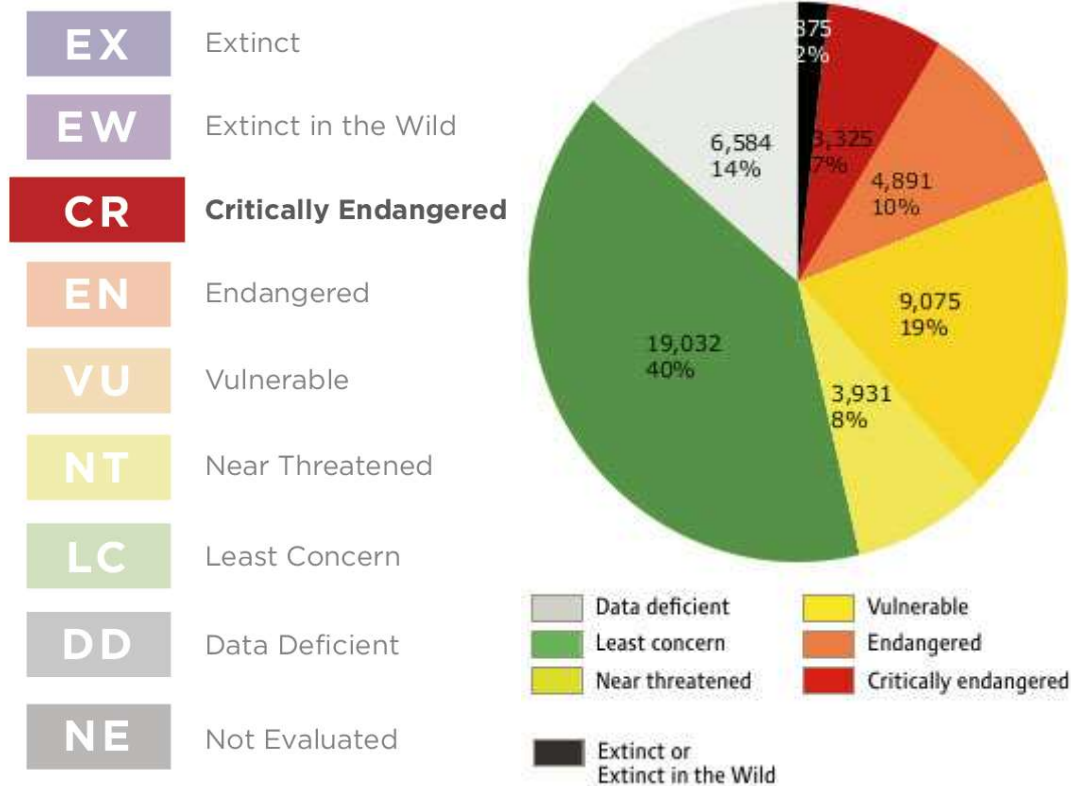
### THE POACHING TOLL ON TWO CONTINENTS



When we consider the relative rates of poaching deaths in these select countries, we find significant differences reflecting each nation's wildlife population. Kenya is home to roughly 38,000 elephants according to recent estimates, which may account for its astronomically high rates of elephant poaching. Whereas India and South Africa are home to far fewer elephants, each boasts a relatively large – and vulnerable – species of its own. India is home to thousands of leopards, while South Africa is home to many rhinos.

In part because of its biodiversity, India has higher cumulative poaching totals than either African nation studied. When we consider the geographical scale of each country (India is larger than Kenya and South Africa combined), the intensity of the poaching problem on the African continent becomes high.





CATEGORIES TO CLASSIFY ON THE BASIS OF PROBABILITY OF EXTINCTION

GLOBAL CLIMATE CHANGE AFFECTING ENDANGERED ANIMALS

**On the basis of the above information, answer the following questions:**

1. What do you understand by the term 'poaching' ?
2. The major reason for many endangered animals being killed every year is.....
3. What happens to people who try to expose the poachers?
4. Why is the rate of elephant poaching astronomically high in Kenya as compared to India and South Africa?
5. Which of the following statement is true?  
 India has higher cumulative poaching totals than either African nation because of the:
  - a. population of rhino being very high.
  - b. biodiversity and geographical scale.
  - c. number of elephants being more as compared to Kenya.

6. From the pie chart given above, what is the total percentage of animals under the category least concern and data deficient?
  - a. 48%
  - b. 54%
  - c. 59%
7. Find the difference between the number of vulnerable and critically endangered animals due to global climate change.
8. What is the total number of rhinos found in Kenya and South Africa? How much is it more or less than the number of rhinos found in India ?
9. Idioms are a type of figurative language whose meaning has no relation to the words in the phrase. Let's match some animal idioms to their meanings.

#### **IDIOMS**

- a. Let sleeping dogs lie pretending
- b. On a wild goose chase
- c. Wolf in sheep's clothing impossible

#### **MEANINGS**

- a. someone dangerous but to be weak.
- b. leave it alone
- c. chasing something that's to catch

10. Find words from the passage which mean the same as:
  - a. exposed to the possibility of being attacked or harmed
  - b. give official permission or approval

*Let us research:  
Try to find various laws related to poaching in India.*

## WORKSHEET 2

Street theatre in India is a well-established ancient art form .Despite the spread of means of entertainment and communication, street theatre continues to flourish in India. Street theatre as a channel of communication has for centuries been propagating reforms by highlighting social, economic and political issues present in the society.



Unlike in the olden days, its performance is no longer restricted to villages or small localities of the city. Today small group of performers including students, would stage performances to mobilize public opinion or to help create or raise awareness over a particular issue of public importance.

### THEMES OF STREET THEATRE

<b>Substance abuse</b>
<b>AIDS awareness</b>
<b>Domestic violence</b>
<b>Drug Abuse</b>

### DIFFERENCE BETWEEN REGULAR DRAMA AND STREET THEATRE

Unlike in regular drama, street drama employs very little props and images.

### MOST IMPORTANT ELEMENT OF STREET THEATRE

The human body becomes the main tool in which choreography, mime, dialogues, songs and slogans are extensively used.

Street theatre is one of the most intimate media. Its appeal is to the emotions leading to quick psychological impact on audiences. By being local and live they also are able to establish not only direct contact with the audience, but by being cost-effective and flexible they are popular among all age groups.

**Read the passage and answer the questions that follow:**

1. Street theatre highlights\_\_\_\_\_ issues present in the society and promotes reforms.
  - a. social
  - b. economic
  - c. political
  - d. all of the above
2. Street theatre is not seen in India these days. (True/False)
3. The Street theatre can be performed in:
  - a. only villages
  - b. only small localities of the city
  - c. every where
  - d. only schools and colleges
4. Which of these is not likely to be a topic of street play:
  - a. Domestic Violence
  - b. Drug Abuse
  - c. Substance Abuse
  - d. Beauty of trees
5. Street play is popular among all age groups because it is:
  - a. costly and rigid
  - b. cost-effective and flexible
  - c. cost-effective and rigid
  - d. cheap and entertaining

*Let us experience:*


*Try organising a street play in your locality.*

## WORKSHEET 3

# Discovery of fire

First Humans

- Discovery of fire was a milestone in development of human life. By rubbing the piece of stone against another piece of stone human discovered that the process creates fire. From this, human learnt burning fire and cooking food.



Primitive man was probably more concerned with fire as a source of warmth and as a means of cooking food than as a source of light. Before he discovered less laborious ways of making fire, he had to preserve it, and whenever he went on a journey he carried a firebrand with him. His discovery that the firebrand, from which the torch may very well have developed, could be used for illumination was probably incidental to the primary purpose of preserving a flame.



Lamps, too, probably developed by accident. Early man may have had his first conception of a lamp while watching a twig or fibre burning in the molten fat dropped from a roasting carcass. All he had to do was to fashion a vessel to contain fat and float a lighted reed in it. Such lamps, which were made of hollowed stones or sea shells, have persisted in identical form up to quite recent times.

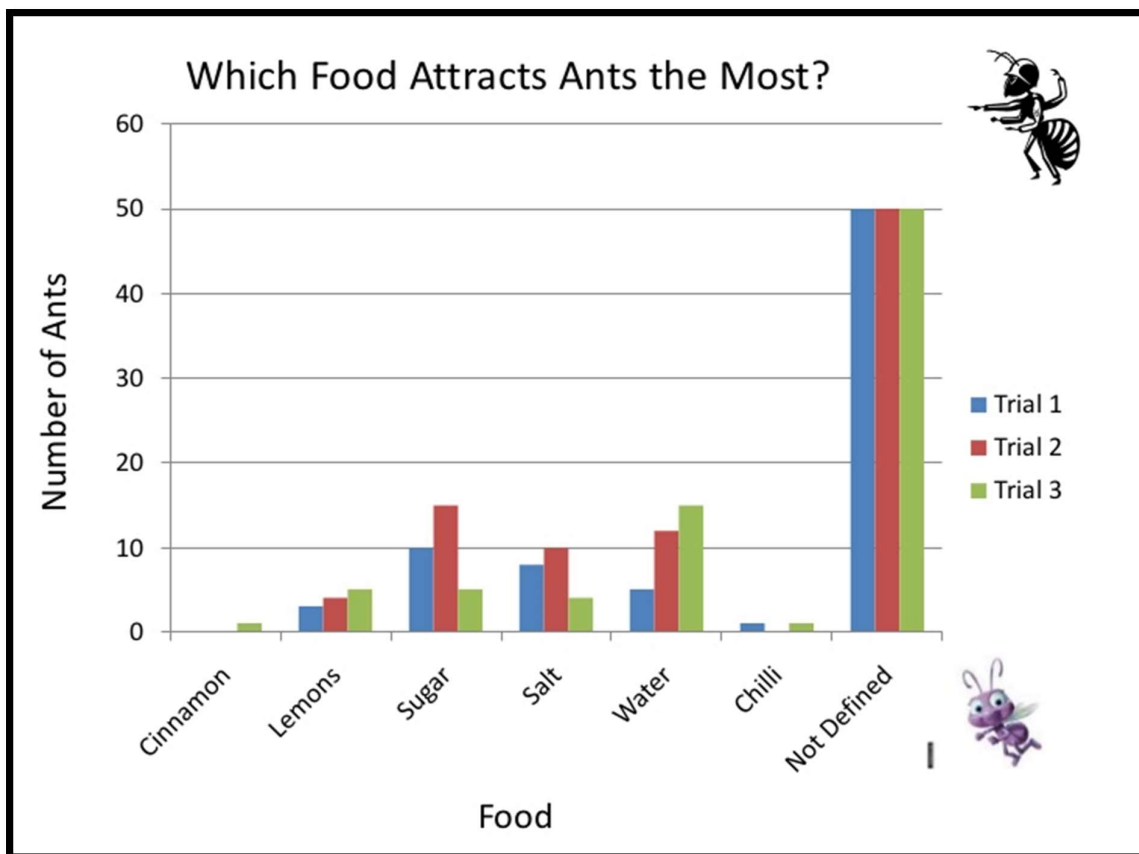
**Read the passage and answer the questions that follow:**

1. Primitive man's important use for fire was
  - (a) to provide warmth
  - (b) to cook food
  - (c) to provide light
  - (d) Both (a) and (b)
2. The firebrand was used to
  - (a) prevent accidents
  - (b) provide light
  - (c) scare animals
  - (d) save labour
3. Lamps probably developed through mere
  - (a) hazard
  - (b) fate
  - (c) chance
  - (d) planning
4. Early lamps were made by
  - (a) using a reed as a wick in the fat
  - (b) letting a reed soak the fat
  - (c) putting the fat in a shell and lighting it
  - (d) floating a reed in the sea-shell
5. Do you think fire can be a good servant but bad master? Give two examples where fire has proven to be a bad master.

*Let us explore:*

*Watch videos of wild fires on YouTube and note the devastation they caused.*

## Worksheet 4



1. Which food is the most favourite of the ants?

- a. lemon
- b. sugar
- c. salt
- d. chilly

2. Which food is least liked by the ants?

- a. cinnamon
- b. lemon
- c. sugar
- d. salt

3. How many ants eat salt?

- a. 15
- b. 5
- c. 10
- d. 25



4. Which food item will come in the category of spices from the above mentioned list?
- a. lemon
  - b. water
  - c. chilly
  - d. cinnamon
5. Which food items are used in ORS?

*Let us explore:*

*Watch Animal Kingdom on National Geography.*

## WORKSHEET 5

### Pasta with Broccoli and Tomato sauce

Read the recipe joyfully!



#### **INGREDIENTS**

- 1) Red onion
- 2) Red peppers
- 3) 20 gram broccoli
- 4) One can (450 gm approx.) tomato puree
- 5) One cup water
- 6) Olive oil
- 7) Garlic
- 8) Oregano
- 9) 50 gram pasta per person.

#### **METHOD**

- a) Cut the onion, red peppers and broccoli into small pieces.
- b) Heat some olive oil in a pan and sauté the onions, red peppers and broccoli.
- c) Add oregano, tomato ketchup, garlic and a bit of water.
- d) Let it simmer on low flame for 5 minutes.
- e) Boil pasta in a big pot of water mixed with salt.
- f) Mix the boiled pasta with the other ingredients.
- g) Serve hot with garlic bread.

**Answer the following questions carefully**

1. One of the following ingredients is not a vegetable?
  - a. Red onion
  - b. Red pepper
  - c. Broccoli
  - d. Oreganos
2. Pasta falls into which category of food items?
  - a. Healthy food
  - b. Grains
  - c. Junk food
  - d. Cereals
3. Which other oil can substituted with olive oil in the recipe?
4. Which ingredients are required to make pasta?
5. Why is pasta cooked separately from vegetables?

*Let us create:*

*Try your hand at cooking pasta!!*

## WORKSHEET 6

### 'Pink for Girls, Blue for Boys'



It is a famous chocolate brand that gives surprise toys specifically made for boys and girls. The girls' pack contains dolls or animal figures whereas boys' pack contains pilots, action figures, cars etc. This shows that as per this company dolls are for girls only and boys cannot or should not play with dolls.

When we assign a particular role or duty to a gender we call it gender stereotyping. We can find many examples around us. Like a boy will not be happy to have a Barbie themed birthday party or girl will not have a PUBG themed birthday party.



1. Which pencil box will you choose as a return gift for a girl and which one for a boy?
2. Given below are some very general statements used for a PERSON. But often we associate statements to a particular gender. Eg: we usually link football related conversations with boys and ballet dance related with girls.

1. What is gender stereotyping?
2. Can you give any two examples of stereotyping around you?
3. ....is promoting gender stereotyping by giving different toys for boys and girls.
4. Men are better drivers than women? Is this stereotype correct? Justify your answer in one-two sentences.

*Let us research:*



5. With which gender do we usually associate these statements? Tick it accordingly.

They are well behaved.	Girl	Boy
They are soft spoken and gentle.	Girl	Boy
They are physically strong.	Girl	Boy
They are naughty.	Girl	Boy
They are good at dance and painting.	Girl	Boy
They don't cry.	Girl	Boy
They are rowdy.	Girl	Boy
They are good at sport.	Girl	Boy
They are good at cooking.	Girl	Boy
They are emotional.	Girl	Boy

## WORKSHEET 7

# Cat Tail Speak



*I'm scared*



*I'm happy  
to see you*



*I'm getting  
upset*



*Let's be friends*



*Hmmm. I'm  
interested*



*I'm crazy  
about you*



*I feel loving*



*I'm worried*



*I'm mad*

**See the picture carefully and answer the questions that follow:-**

1. What does the standing tail of cat tell us?
2. Which position of tail shows that the cat is worried?
3. What does shaking tail tell us?
4. In the last pic it is written, "I'm Mad". What does mad mean?
5. Which animal belongs to the cat family?
  - a. bear
  - b. goat
  - c. tiger
  - d. all the above

*Let us observe:*

*Observe the habits and funny quirks of pets in your neighbourhood.*




## WORKSHEET 8

Venu, his sisters and his parents have planned a trip to Goa during the autumn break. As a part of the preparations, Venu and his father go to the railway station to buy the tickets and reserve seats a month in advance.

To reach Goa, The train departs at 11:25:00 am from New Delhi NDLS and arrives in Goa MAO at 12:50:00 pm

This given below is the reservation form that they have filled.

**Read it carefully and answer the question that follows:**

RAILWAY					CM257
RESERVATION / CANCELLATION REQUISITION FORM					
If you are a Medical Practitioner					
Please tick ( ) in Box					Dr. <input type="checkbox"/>
(You could be of help in an emergency)					
Train No. & Name		124, GOA RAJDHANI		Date of journey 12 AUG, 2019	
Class		2nd AC		No of Berth/Seat 4	
Station from		New Delhi		To GOA	
Boarding at		New Delhi		Reservation upto GOA	
S.No.	Name in Block letter(not more than 15 chars)	Sex (M/F)	Age	Concession/Travel Authority No.	Choice if any
1	DR N.P. RAO	M	38		Lower/Upper berth
2	P. SUMITHA RAO	F	36		
3	P. VENU RAO	M	12		<input checked="" type="checkbox"/> Veg./Non-veg. Meal for Rajdhani/Shatabdi
4	P. JAYA RAO	F	8		
5					
6					
CHILDREN BELOW 5 YEARS (FOR WHOM TICKET IS NOT TO BE ISSUED)					
S.No.	Name in Block Letters	Sex	Age		
1	P. LEELA RAO	F	3		
2					
ONWARD/RETURN JOURNEY DETAILS					
Train No. & Name		125, GOA RAJDHANI		Date 20 AUG, 2019	
Class		2nd AC		Station from: GOA To NEW DELHI	
Name of applicant		DR. N. P. RAO			
Full Address		6-540, D N NAGAR, DELHI			
Telephone No.,		9123456789		Date 12 JULY, 2019 Time 10:15 PM	
		 Signature of the Applicant/Representative			
<b>FOR OFFICE USE ONLY</b>					
S.No. of Requisition		PNR No.			
Berth/Seat No.		Amount collected			
Signature of Reservation Clerk					
Note : <ol style="list-style-type: none"> <li>Maximum permissible passengers is 6 per requisition.</li> <li>One person can give one requisition form at a time.</li> <li>Please check your ticket and balance amount before leaving the window.</li> <li>Forms not properly filled or in illegible forms shall not be entertained.</li> <li>Choice is subject to availability.</li> </ol>					

**According to the above reservation how many children are travelling?**

1. If tickets were booked a month before on what date was it booked?
  - a. 12 July
  - b. 12 August
  - c. 20 August
2. How many nights will the Rao family spend in Goa?
  - a. 6
  - b. 7
  - c. 8
3. How much time does the train take to reach Goa?
  - a. 25hr 25min
  - b. 24hr 25 min
  - c. 12hr 50 min
4. Why do you think DR. N.P. Rao did not tick ( ) in the box of medical practitioner even though he writes the designation as 'doctor'?

*Let us explore:*

*Look for your last vacation tickets and try calculating the total expenditure on travelling.*

## Worksheet 9

**Read the following two letters carefully and answer the questions given below them.**

Dear Mr. Chhatre,

The umbrella, which you have forgotten during your visit to our departmental store day before yesterday, is still here. It gives a very obnoxious look, besides emitting some foul smell. Will you please take the trouble to collect it as early as possible? Tomorrow it being our weekly off, our store is closed. You may collect your 'precious' umbrella day after tomorrow i.e. on Sunday.

Yours sincerely

C.F. Francis

Dear Mr Francis,

Thank you for your letter. The time that I must spend to visit your store is much more important than my precious umbrella. Also, you have now known the worth of my umbrella. I, therefore, would like to donate it generously to a friend like you. You may keep it on display in your big store as a historical monument. Thanking you once again for your kindness to remind me of my lost property.

Yours sincerely,

Akash Chhatre

1. Mr Francis wrote to Chhatre because
  - (a) Chhatre was his close friend.
  - (b) Chhatre was a very busy man.
  - (c) the umbrella was really very precious.
  - (d) he was concerned about Chhatre's love for the umbrella.
2. Shri Chhatre had visited the departmental store on which of the following days?
  - (a) Monday                      (b) Wednesday
  - (c) Thursday                      (d) Friday
  - (e) None of these
3. Which of the following is true about the umbrella, as mentioned by Mr Francis?
  - (a) The umbrella was a problem to the customers' eyes only.
  - (b) The umbrella was a problem to the customers' noses only.
  - (c) The umbrella was a problem to the customers' nose and eyes.
  - (d) The umbrella was a very expensive item.
  - (e) The umbrella was like a historical monument.

4. Chhatre's act of donating the umbrella to Francis reveals that
- (a) Chhatre is a very generous person.
  - (b) Francis needed the umbrella very much.
  - (c) he had a lot of sympathy for Francis' store.
  - (d) he could not afford to spend money to collect it.
  - (e) None of these
5. On the basis of these two letters, which of the following can be inferred to be definitely true?
- (a) Francis and Chhatre do not have good relations with each other.
  - (b) Chhatre's umbrella was very expensive.
  - (c) The departmental store is closed on Saturday.
  - (d) Francis' store would benefit by preserving the umbrella.
  - (e) None of these.

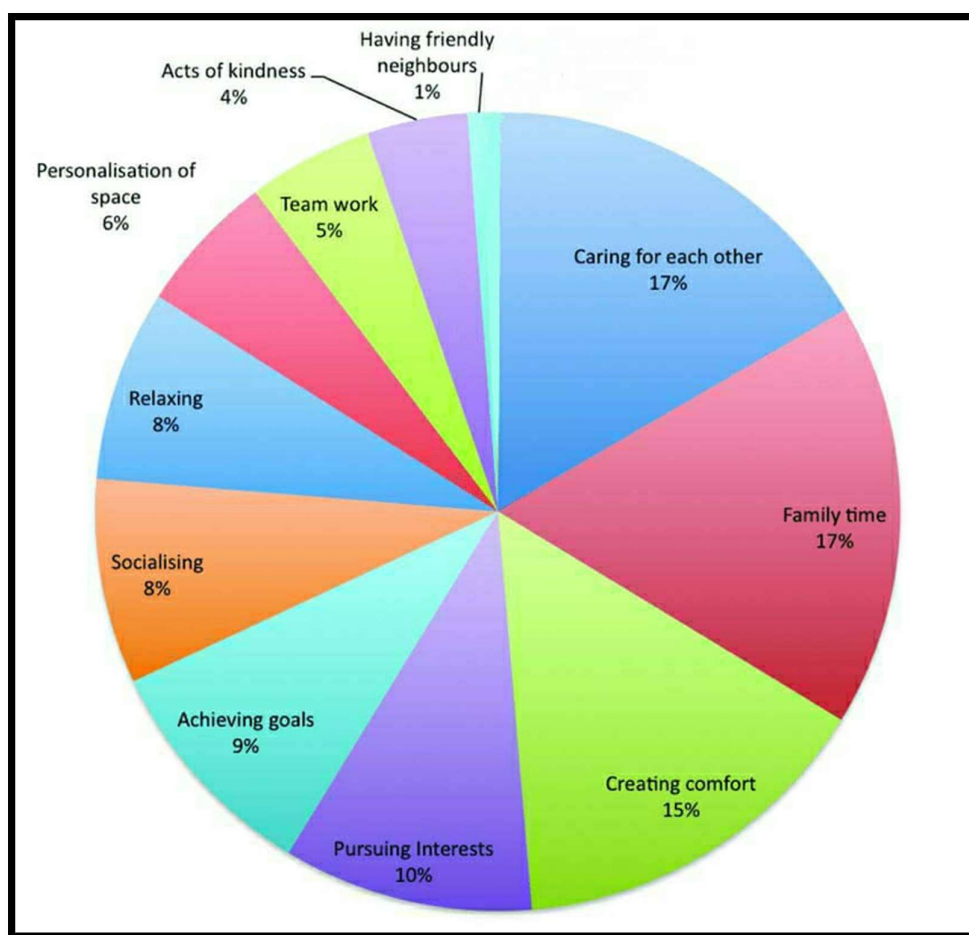
*Let us explore:*

*Try finding old means of communication like telegrams, letters etc.*

## Worksheet 10

A survey was conducted and a chart was prepared based on the various activities that give different amount of satisfaction and happiness in life of an individual

**Read the Pie chart and answer the questions:**



1. Divide the Activities of the chart as Individual and social
2. What is the total percentage of Individual activity?
  - a) 48
  - b) 52
  - c) 49
3. Which groups of activities bring more happiness?

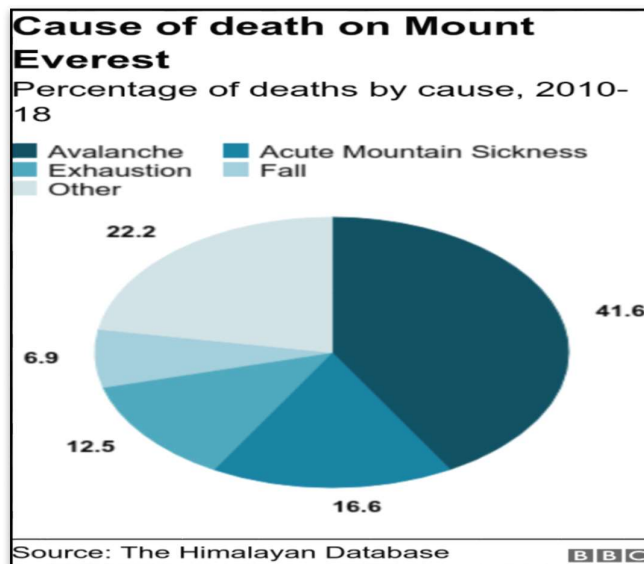
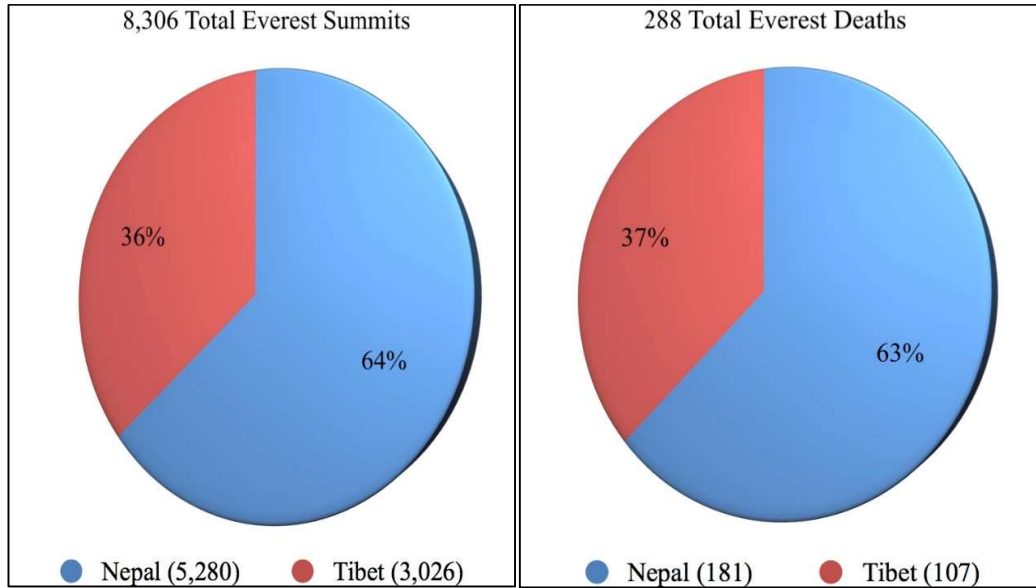
4. Which of the above affects the last in social satisfaction? (Give a reason)
5. Why do you think maximum people have chosen family time as most satisfying? (give two reasons)

*Let us create:*

*Try making a pie chart showing your daily activities.*

## Worksheet 11

Read pie charts and answer the questions that follow:



1. Based on the data of the pie chart, climbing from which side is more popular?
  - a. Nepal
  - b. Tibet
2. Which side has higher death rate and how much?



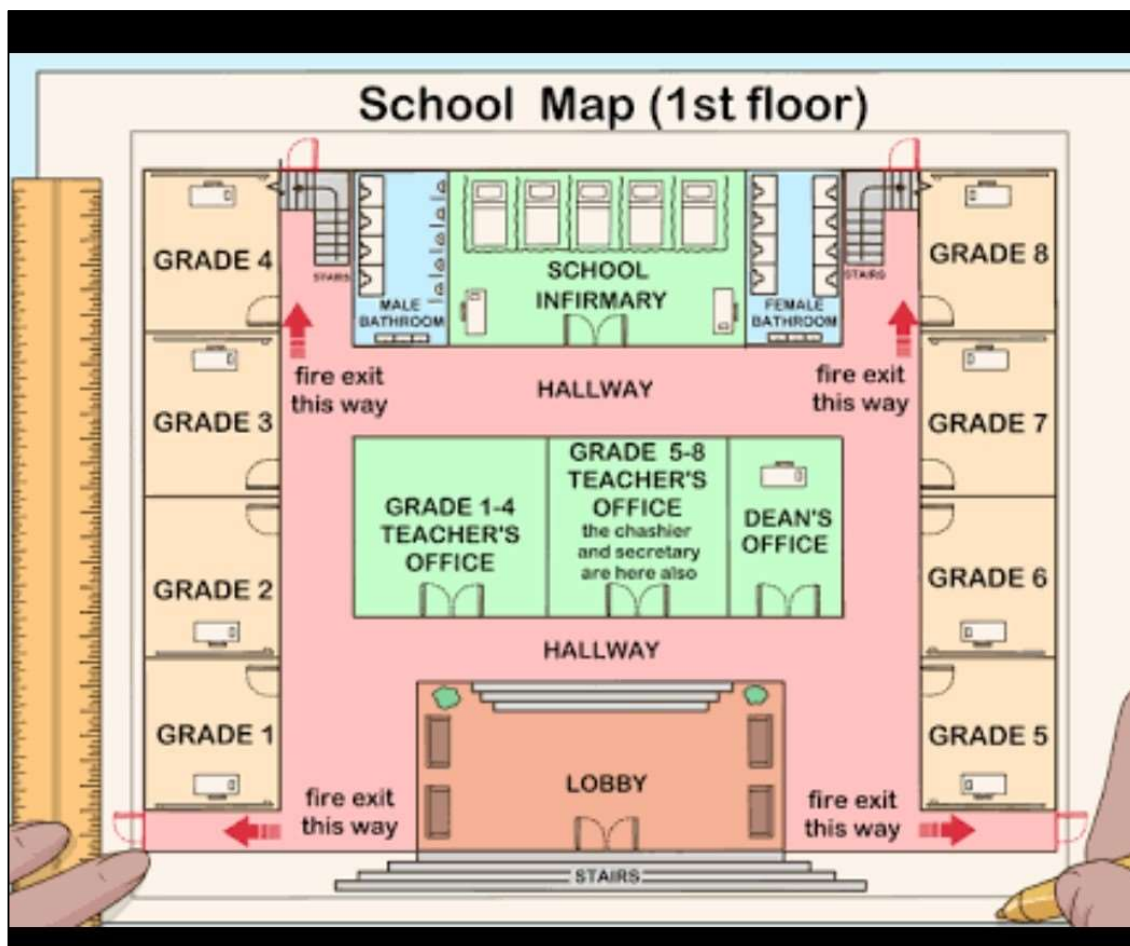
3. What is the major reason for the cause of death?
4. The above data base is for how many years?
- a. 10                      b. 18
- c. 8                        d. 5
5. What is the least cause of death while climbing Everest and why?

*Let us navigate:*

*Try visiting [www.outsideonline.com](http://www.outsideonline.com)*

## Worksheet 12

Look at the school map carefully and answer the questions:



1. What does this map intend to show?
  - a. Location of all classrooms on the first floor.
  - b. It shows the fire exit plan.
  - c. It shows the location of school hospital, Dean's office, teacher's office.
  - d. All of the above.
2. A parent visits school to pay the fee of his ward, in which room will he go?
  - a. Dean's office
  - b. Classroom
  - c. Lobby
  - d. Cashier's room

3. Complete the following:-

The smallest room area wise on the first floor is\_\_\_\_\_

4. What step has been taken for the needs of the sick?

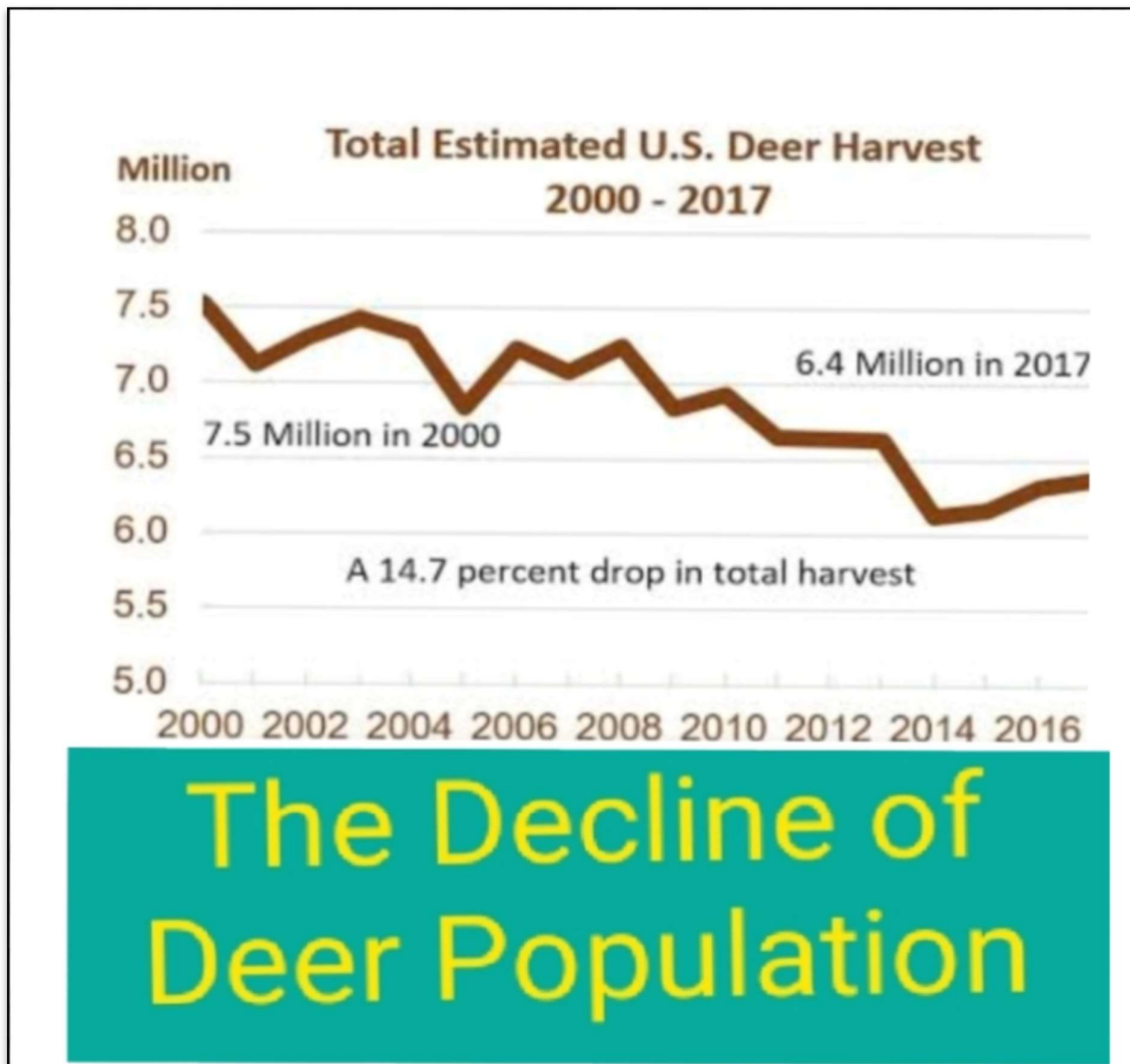
5. Which three rooms are in front of lobby?

*Let us create:*

*Try your hand in making a layout of your house.*

## Worksheet 13

Read the bar graph and answer the questions:



1. Which country's data is shown in this bar chart?

- a. England
- b. United States of America
- c. France
- d. Germany

2. What is the highest data of deer harvest?

- a. 6.5 million
- b. 8.0 million
- c. 7.5 million
- d. 6.0 million

3. How many years data is shown in this bar chart?

- a. 13
- b. 15
- c. 16
- d. 17

4. What was the estimated data of deer harvest in 2017?

- a. 6.5 million
- b. 6.3 million
- c. 6.4 million
- d. 6.2 million

5. What is the difference of data between 2000 and 2017?

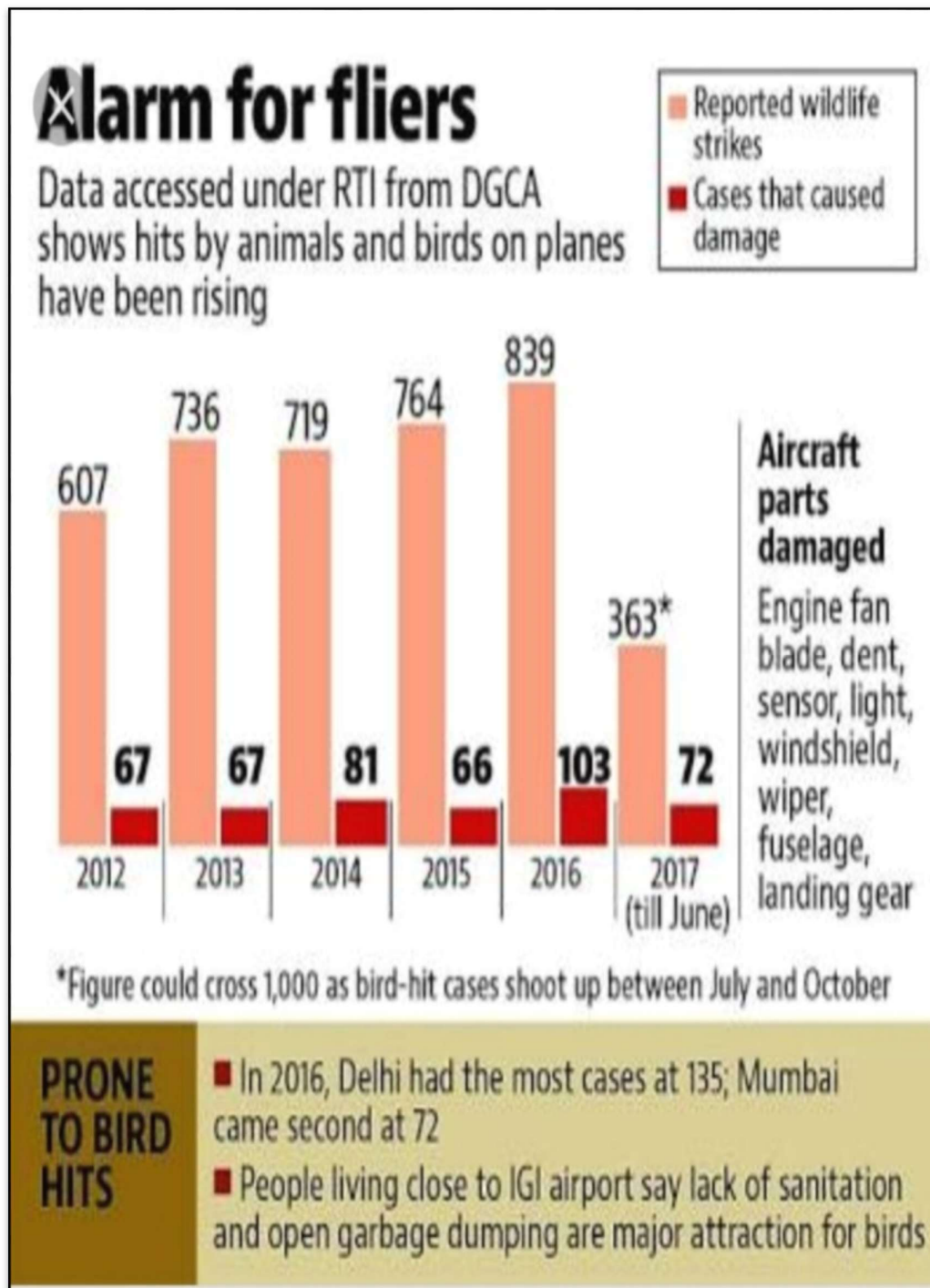
- a. 1.3
- b. 1.2
- c. 1.0
- d. 1.1

*Let us navigate:*

*Visit [www.deerfriendly.com](http://www.deerfriendly.com)*

## Worksheet 14

Look at the graph carefully and answer the questions given below



1. Why is there a reference to cases of Delhi and Mumbai?
2. The data states that "BIRD-HIT CASES SHOT UP BETWEEN JULY AND OCTOBER". What can be the probable reason of increase in these knots only?
3. It is stated that "LACK OF SANITATION AND OPEN GARBAGE DUMPING ARE MAJOR ATTRACTION FOR BIRDS". What else can you think be the reason for bird attraction?
- Q4. The red color bar shows "CASES THAT CAUSED DAMAGE". What does it imply?
- Q5. What is the full form of IGI AIRPORT?

*Let us explore:*

*Try visiting the Chandigarh Airport and observe what kind of habitat is in the surrounding area.*



## Worksheet 15

Read the given poster and answer the questions that follow:-



1. The state of Meghalaya was established in\_\_\_\_\_.

- a. 1972
- b. 21<sup>st</sup> Jan
- c. 1962
- d. 1975

2. When is Meghalaya Day celebrated?

- a. 21<sup>st</sup> Jan
- b. 19<sup>th</sup> Jan
- c. 20<sup>th</sup> Jan
- d. 26<sup>th</sup> Jan

3. What is the full form of DIPR?

- a. director of instruction in public relations
- b. department of instruction and Public Relations
- c. Directorate of Information and public relation
- d. department of information and Public Relations

4. What do you think Shillong is selected as the venue of all the celebrations of statehood day?

5. Why are the entries to be submitted on 19 Jan 2019 while the statehood day is 21st Jan 2019?

*Let us explore:*

*Try finding more information on [//en.m.wikipedia.org/](https://en.m.wikipedia.org/)*

## Worksheet 16

**Read the given chart and answer the questions that follow:**

TEMPERATURE AND RAINFALL DATA OF FEW STATIONS IN INDIA:-

STATION		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
A	Temp (*C)	14.4	16.7	23.3	30.0	33.3	33.3	30.0	29.4	28.9	25.6	19.4	15.6
	Rainfall (cm)	2.5	1.5	1.3	1.0	1.8	7.4	19.3	17.8	11.9	1.3	0.2	1
B	Temp (*C)	24.5	25.7	27.7	30.4	33.0	32.5	31.0	30.2	29.8	28.0	25.9	24.8
	Rainfall (cm)	4.6	1.3	1.3	1.8	3.8	4.5	8.7	11.3	11.9	30.6	35.0	13.9

1. The two rainiest months of Station A are ..... and.....
2. Difference between highest and the lowest temperature of station A is
  - a. 18.9
  - b. 08.9
  - c. 80.9
  - d. 00.8
3. In the months of May and August in Station A, the difference of temperature is
  - a. 2.9
  - b. 3.9
  - c. 4.9
  - d. 5.9
4. What is the difference of lowest rainfall in both the station?
5. What are the units of measurement of temperature?

*Let us explore:*

*Try visiting the Weather Forecast Centre in your city.*

## Worksheet 17

Read the given information carefully and answer the questions accordingly:

### SOUNDS OF SUMMER: BUG EDITION

Peaceful summer evenings are often spent sitting on the front porch, enjoying a symphony of sounds produced by nature. The season certainly has its own music — and much of it is made by bugs! In fact, you might be surprised to learn exactly how bugs play a part in summer's orchestra.

#### CICADAS

Male cicadas have two special membranes, called tymbals, located on their abdomen. Much of the rest of the abdomen is hollow and serves as a natural amplifier for the clicks produced as cicadas vibrate these organs.

#### BEES

Almost everyone is familiar with the buzzing of a bumblebee. What you're hearing is an actual disturbance in the air created by the beating of the bee's wings. The larger the bee — or wasp, or hornet — the slower its wings beat and the lower the pitch of the resulting sound.

#### BESS BEETLES

Bess beetles are capable of producing upwards of 14 different sounds. Not all of these sounds are audible to human beings, but once you've heard a bess beetle hiss or squeak, you aren't likely to forget it.

#### MOSQUITOES

The high whine of a mosquito flying close to your ear may be one of the most annoying sounds associated with summer. It's believed this sound may serve some purpose in attracting a mate. Either way, mosquitoes are able to control the rate of their wing beats and serenade each other at very specific frequencies.

#### CRICKETS & KATYDIDS

Crickets make a chirping sound by running the top of one wing along the other in a process known as stridulation. Katydid also stridulate, but, rather than trilling, they often strike a buzzing, drawn-out and softer note.

Like what you hear?  
Visit [Terminix.com/blog](http://Terminix.com/blog) to learn more.

**TERMINIX**

1. Match the sounds with the insects:

INSECT	SOUNDS
Bess Beetles	Chirping
Cicadas	Buzzing
Bees	Squeaking
Cricket	Clicking

2. Name two bugs which produce sounds by beating of their wings.

3. Fill in the blanks:

Smaller the bee (a) \_\_\_\_\_ the pitch, and larger the bee (b) \_\_\_\_\_ the pitch.

- a. Larger, Smaller
- b. Smaller, Larger
- c. Lower, Higher
- d. Higher, Lower

4. Which insect produces sound by vibrating its abdomen?

5. What do you understand by the phrase "the whine of mosquito"?

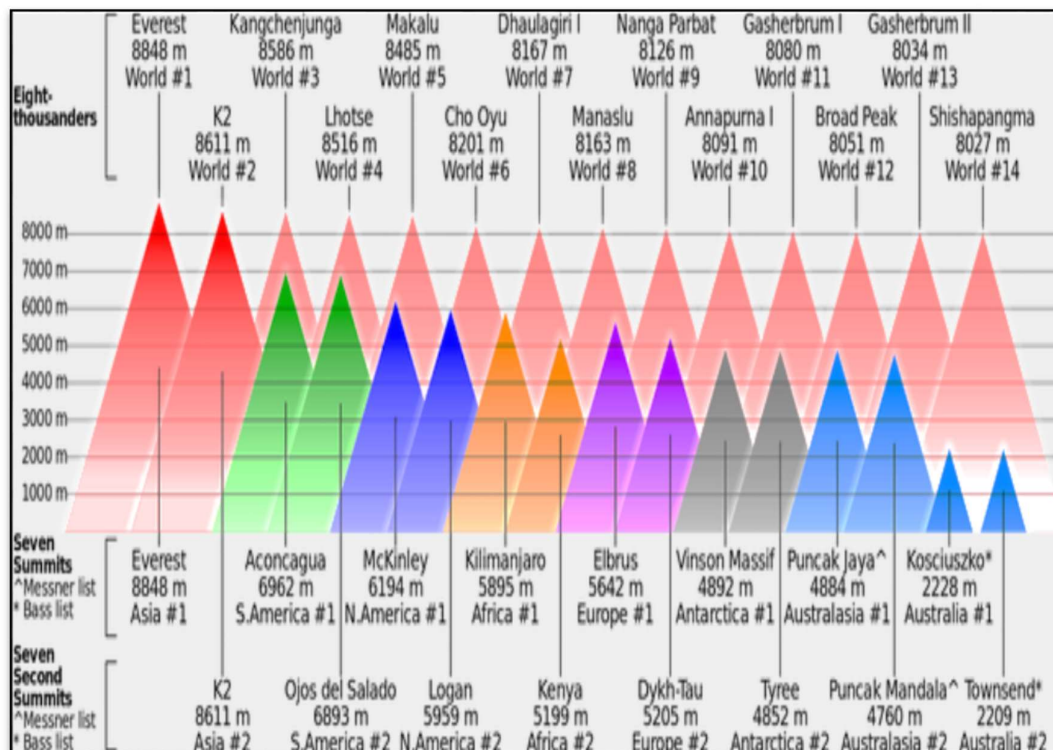
- a. To move around
- b. To produce unpleasant sound
- c. To squeal
- d. To produce delightful sound

*Let us observe:*

*Try observing the movement of common house fly in your house.*

## Worksheet 18

Study the picture given below and answer the following questions.



1. Which of the following mountain peaks is known as the “highest garbage dump of the world”?

- Mt. Elbrus
- Mt. Everest
- Mt. Kenya
- Mt. Broad Peak

2. Which Greek mountain was considered to be the abode of the Gods in the ancient times?

- Mt. Meru
- Mt. Olympus
- Mt. Voras
- Mt. Smolikas

3. Which is the world's second highest peak in the world?

- a. K2 peak
- b. Mount Godwin Austin
- c. Option a & Option b
- d. Mt. Kanchenjunga

4. Arrange the following mountains according to their height, in ascending order:

- a. Mt. K2
- b. Mt. Tyree
- c. Mt. Logan
- d. Mt. Cho Oyu

5. Which South African city is situated in the foothills of Table Mountain?

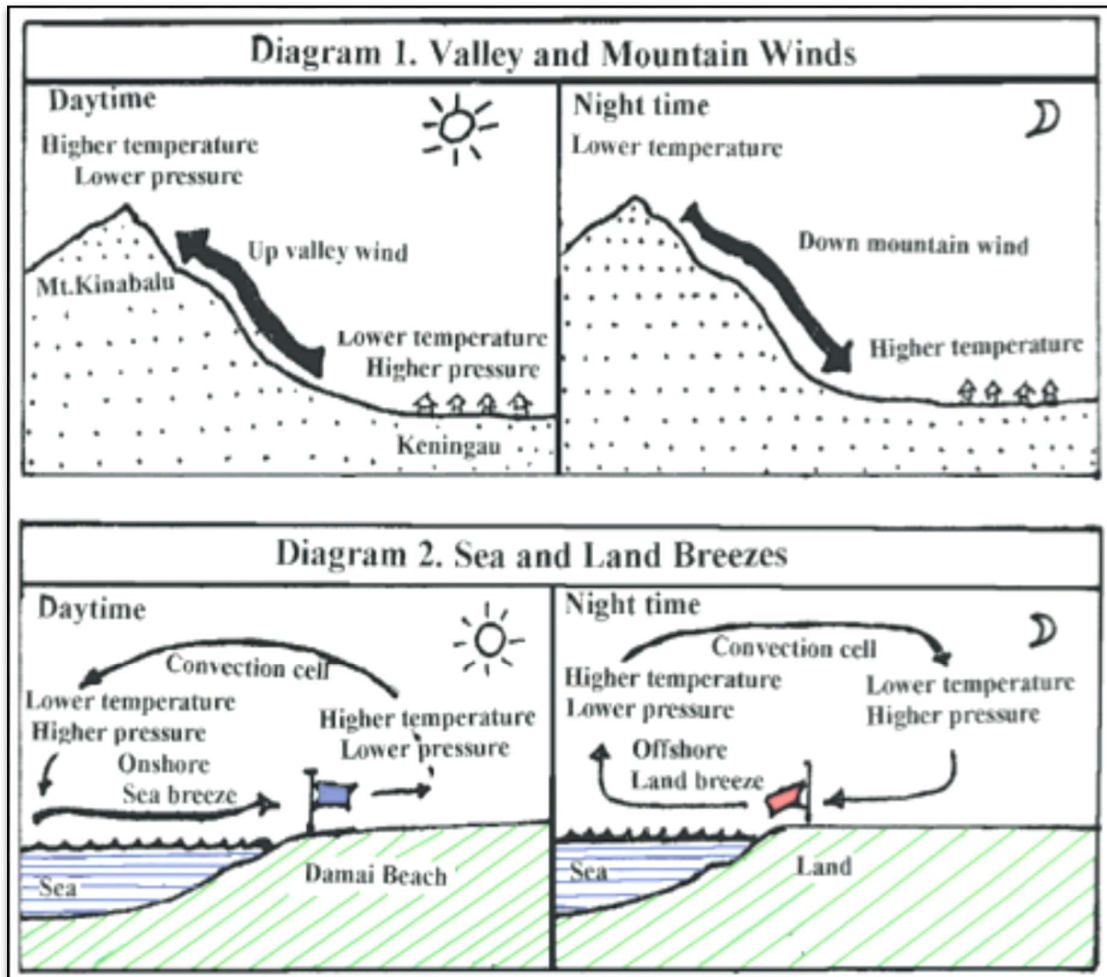
- a. Cape Town
- b. Welkom city
- c. Durban
- d. Paarl city

*Let us explore:*

*Try your hand at finding various mountain ranges of India in Atlas.*

## Worksheet 19

Study the diagrams given below and answer the following questions:



1. As the temperature of the surface of the land rises, the land heats the air above it by .....

- a. Evaporation
- b. Convection
- c. Condensation
- d. Convection



2. Extreme wind speeds in valleys are in the .....
- a. Late afternoon
  - b. Morning
  - c. Night
  - d. Early afternoon
3. The sea has a greater ..... capacity than land so the surface of the sea warms up more slowly than the land's.
- a. heat
  - b. cooling
  - c. moving
  - d. Freezing
4. How does the air move in a sea breeze?
- a. From East to West
  - b. From West to East
  - c. From the land to the sea
  - d. From the sea to the land
5. The diagrams have numerous antonyms. Enumerate four pairs of antonyms:
- a. ....
  - b. ....
  - c. ....
  - d. ....

*Let us navigate:*

*Try visiting [www.britannica.com](http://www.britannica.com) for more information*

## Worksheet 20

**Read the given text and answer the questions that follow:**

On June 25, 2020 Hindustan Unilever's Fair & Lovely announced that it will drop the word 'Fair' from its name and restrict using 'White/Whitening', 'Light/Lightening' from all its packs and communications.



In the wake of Black Lives Matter, recent protests against racial discrimination in the US, social media was abuzz with people calling out beauty brands for perpetrating a bias based on skin colour.

Following this, Johnson & Johnson announced that it will be discontinuing its skin lightening creams Neutrogena Fine Fairness and Clear Fairness by Clean & Clear. Now, HUL has joined the list. Albeit, it is only dropping the brand name.

Over the years, HUL's Fair & Lovely has created an image for being a skin lightening cream. While there are many other players in this industry, Fair & Lovely has faced a lot of backlash on social media for its poor choice of brand name, advertisements and for propagating unrealistic beauty standards and stereotyping skin tones.

The statement released on HUL's website said, "Fair & Lovely has never been, and is not, a skin bleaching product." However, its communication indicated otherwise. Its advertisements from the late 90s and early 20s portrayed women of colour as failures, who ached their presentations or could only upload their profiles on matrimonial websites after applying a cream. They started by selling 'gori twacha' (fair skin) and moved to using alternatives like 'nikhaar' in this statement. For years, the brand has been making young Indian girls insecure of their skin tone by promising dreams coming true through fairness.

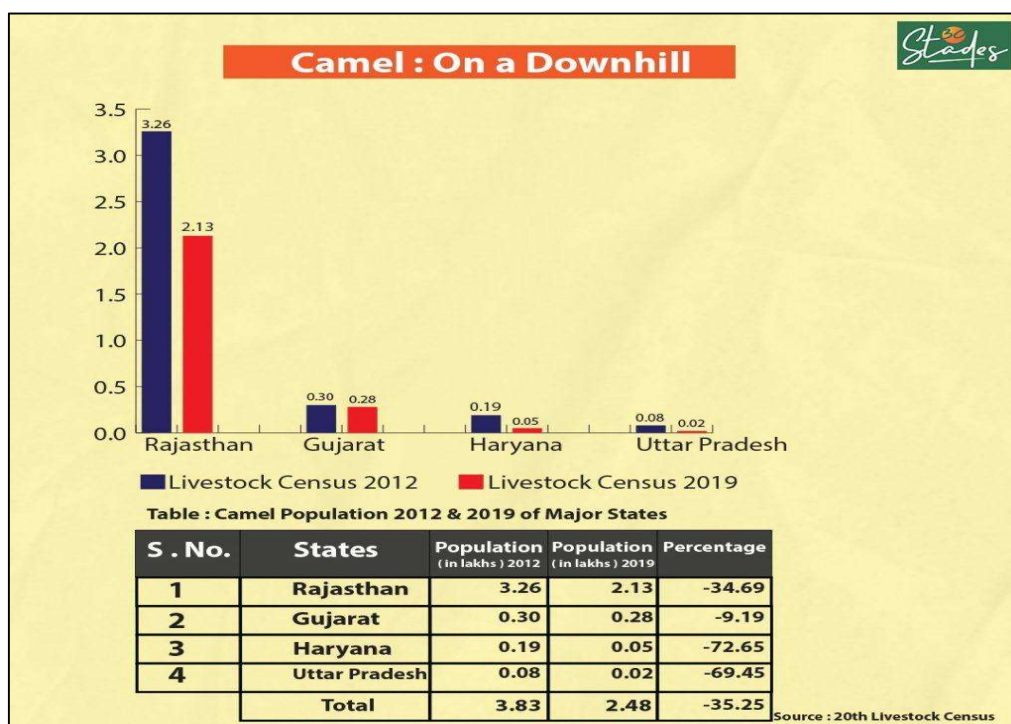
1. In the wake of \_\_\_\_\_, there were recent protests against racial discrimination in the US.
  - a. Black Lives Matter
  - b. All Lives Matter
  - c. No Lives Matter
  - d. American Lives Matter
2. Neutrogena of Johnson & Johnson is a \_\_\_\_\_ cream.
  - a. Skin lightening cream
  - b. Skin smoothing cream
  - c. Skin glowing cream
  - d. Skin tightening cream
3. Which of these is not a reason why Fair and Lovely has been criticised?
  - a. Brand name
  - b. Propagation of Unrealistic beauty standards
  - c. Stereotyping skin tones
  - d. Promoting the superiority of men over women
4. The advertisement of Fair and Lovely promised girls that their dreams come true through
  - a. talent
  - b. fairness
  - c. hard work
  - d. friends
5. The word backlash in paragraph 4 means
  - a. Criticism
  - b. Praise
  - c. Honour
  - d. Motivation

*Let us navigate:*

*Try visiting [//en.m.wikipedia.org/](https://en.m.wikipedia.org/)*

## Worksheet 21

Look into the BAR GRAPH and answer the following questions:



1. Which state has the largest camel population in Livestock Census 2012?
2. What was the difference of the camel population between Gujarat and Uttar Pradesh in 2019?
3. Blue signs are referred to \_\_\_\_\_.
4. Which state had the largest difference between Livestock census 2012 & 2019?
5. Which Livestock Census shows Gujarat had more camel population?

*Let us navigate:*

*Try visiting [www.downearth.org.in](http://www.downearth.org.in)*

## Worksheet 22

Read the given chart and answer the questions that follow:

CHENNAI EXPRESS (12163)				DADAR to CHENNAI EGMORE		BACK
S.No.	Station Name	Distance	Platform	Train Timings		
CODE				Scheduled		
1 DR	DADAR	0 km's	Platform: 7	A	Source	
				D	20:30 (Day 1)	
2 KYN	KALYAN JN	45 km's	Platform: 5	A	21:07 (Day 1)	
				D	21:10 (Day 1)	
3 LNL	LONAVALA	119 km's	Platform: 1	A	22:37 (Day 1)	
				D	22:40 (Day 1)	
4 PUNE	PUNE JN	183 km's	Platform: 5	A	00:05 (Day 2)	
				D	00:10 (Day 2)	
5 SUR	SOLAPUR JN	447 km's	Platform: 1	A	04:00 (Day 2)	
				D	04:05 (Day 2)	
6 KLBG	KALABURAGI JN	560 km's	Platform: 1	A	06:07 (Day 2)	
				D	06:10 (Day 2)	
7 SDB	SHAHABAD	586 km's	Platform: 2	A	06:34 (Day 2)	
				D	06:35 (Day 2)	
8 WADI	WADI	596 km's	Platform: 2	A	07:05 (Day 2)	
				D	07:10 (Day 2)	
9 YG	YADGIR	635 km's	Platform: 1	A	07:39 (Day 2)	
				D	07:40 (Day 2)	
10 SADP	SAIDAPUR	658 km's	Platform: 1	A	07:54 (Day 2)	
				D	07:55 (Day 2)	

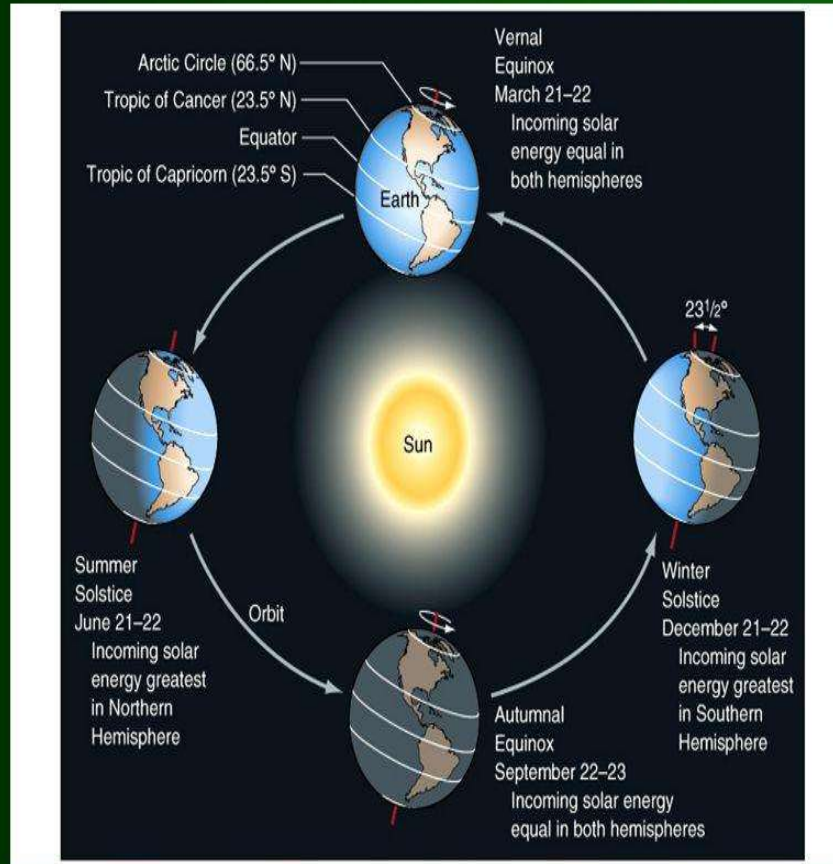
1. What is the number of Chennai Express?
2. Which is the fifth stop of Chennai Express as per schedule?
3. How far is Lonavala from Saidapur?
4. At which platform Chennai Express will stop at Wadi station?
5. In how many hours will a person reach Kalaburagi Jn if he boarded the train from Lonawala?

*Let us explore:*

*Try visiting [www.travelkhana.com](http://www.travelkhana.com) to find and explore more about the Railway timetable.*

## Worksheet 23

The 4-seasons is caused by the Earth's  $23.5^\circ$  tilt from the line perpendicular to its orbit plane (toward the sun during summer)



**Observe carefully the diagram given above and answer the questions that follow:**

1. Arrange them according to their progressive aspects during the year:
  - a. Winter Solstice
  - b. Summer Solstice
  - c. Autumnal Equinox
  - d. Vernal Equinox

2. On Equinox, the Sun's rays fall directly on the Earth's
- Equator
  - North Pole
  - South Pole
  - Tropic of Cancer
3. Which two seasons make the shortest shadows?
- Spring and Winter
  - Summer and Winter
  - Summer and Autumn
  - Spring and Summer
4. Which of the following set of words is not associated with seasons?
- arctic ,chill blains, flannel, avalanche
  - deluge, drencher ,cloud-burst, torrent
  - blistering, summer solstice, sweltering
  - dreary, humid, incoherent, shot-put
5. The plane formed by the axis of the Earth and orbit is known as the
- Spherical plane
  - Symmetric plane
  - Orbital plane
  - None of these

*Let us create:*

*Try making a working model of earth showing rotation and revolution.*



## Worksheet 24



### **Jal Mahal Palace Jaipur (Architectural Wonder)**

Jal Mahal (meaning "Water Palace") is a palace in the middle of the Man Sagar Lake in Jaipur city, the capital of the state of Rajasthan, India. The palace and the lake around it were renovated and enlarged in the 18th century by Maharaja Jai Singh II of Amber. The Jal Mahal palace is an architectural showcase of the Rajput style of architecture (common in Rajasthan) on a grand scale. The building has a picturesque view of the lake itself but owing to its seclusion from land is equally the focus of a viewpoint from the Man Sagar Dam on the eastern side of the lake in front of the backdrop of the surrounding Nahargarh ("tiger-abode") hills. The palace, built in red sandstone, is a five storied building, of which four floors remain underwater when the lake is full and the top floor is exposed. One rectangular Chhatri on the roof is of the Bengal type. The chhatris on the four corners are octagonal. The restoration works were re-done with traditional materials for plastering – the plaster consists of partly organic material: a mortar mix of lime, sand and *surkhi* mixed with jaggery, guggal and methi powder. It was also noticed that there was hardly any water seepage, except for a little dampness, on the floors below the water level. But the original garden, which existed on the terrace had been lost. Now, a new terrace is being created based on a similar roof garden of the Amer Palace. The building is located near the shoreline of a lake with a maximum depth of 15 ft. Though 4 stories of the building are under the surface of the water, they would be built into the bed of the lake. Maharaja Sawai Pratap Singh constructed Jal Mahal in 1799 to serve as a hunting lodge during his duck shooting trips. There are no rooms in the palace.

**Read the extract given above and answer the questions that follow.**

1. Jal Mahal was constructed in 1799 by
  - a. Sawai Maan Singh
  - b. Sawai Pratap Singh
  - c. Sawai Jai Singh
  - d. Sawai Prithvi Singh
  
2. The purpose of building the Jal Mahal was
  - a. Residential palace
  - b. Army training purpose
  - c. hunting lodge
  - d. Amusement park
  
3. How many stories of the building are under water's surface
  - a. 2 stories
  - b. 3 stories
  - c. 4 stories
  - d. 5 stories
  
4. Jal Mahal is an architectural marvel .Despite so many stories being below the water's surface, there is no leakage. The reason for it is
  - a. excellent quality of cement
  - b. white marble
  - c. limestone mortar and red sandstone
  - d. black granite

*Let us explore:*

*Try visiting [en.wikipedia.org](https://en.wikipedia.org) for the architecture of Rajasthan.*

## Worksheet 25

Read the graph given below chart and answers the questions carefully



1. What are the diseases that Asiatic lions are suffering from?
2. What is the total area utilised by Gujarat Government for lion habitat in state?
  - a. 39.64 square km.
  - b. 1648.78 square km.
  - c. 258 square km.
  - d. 18.22 square km.
3. As per the report of Gujarat Forest Department, what is the present situation of lions in the state?
4. What is the percentage increase in the number of lions from 2001 to 2015?
  - a. 58
  - b. 59.9
  - c. 55
  - d. 62

5. Which phrase in the passage means same as 'pool interests'?

- a. pool of water
- b. join hands
- c. interesting activity
- d. collect information

*Let us explore:*

*Try watching Nat Geo and get more information about Asiatic lion.*

## Worksheet 26

Look at the graph given below carefully and answer the questions:



1. Which of the following statements does not reflect patriarchal mind set?

- 'My mom is the centre of our house.'
- 'My father decides everything in our house.'
- 'All the rules of our house are as per father's dictates.'
- 'The finance of our house is in control of our papa.'

2. What is the name of One Stop Centre.?

3. What is the percentage of domestic violence cases out of the total reported cases?

- a. 45
- b. 45.3
- c. 40
- d. 50

4. What do you mean by Helpline 24x7 Toll free?

- a. help can be taken from the given number on fixed hours of the day.
- b. it means complainant can call for help at any hour of the day, any day of the week, at no cost.
- c. the person can stand in queue to get help.
- d. all of the above.

5. What steps do you think can be taken to reduce the cases of domestic violence?

*Let us read:*

*Try reading 'The Head of the Family' by Anton Chekhov.*

## Worksheet 27

See the picture carefully and answer the questions that follow:-



1. Where are the shooters sitting?
2. What is the person standing behind doing?
3. Why do shooters take a dog with them?
4. What is the best place for shooting?
5. Why do shooters hide them in the grass during the shooting?

*Let us read:*

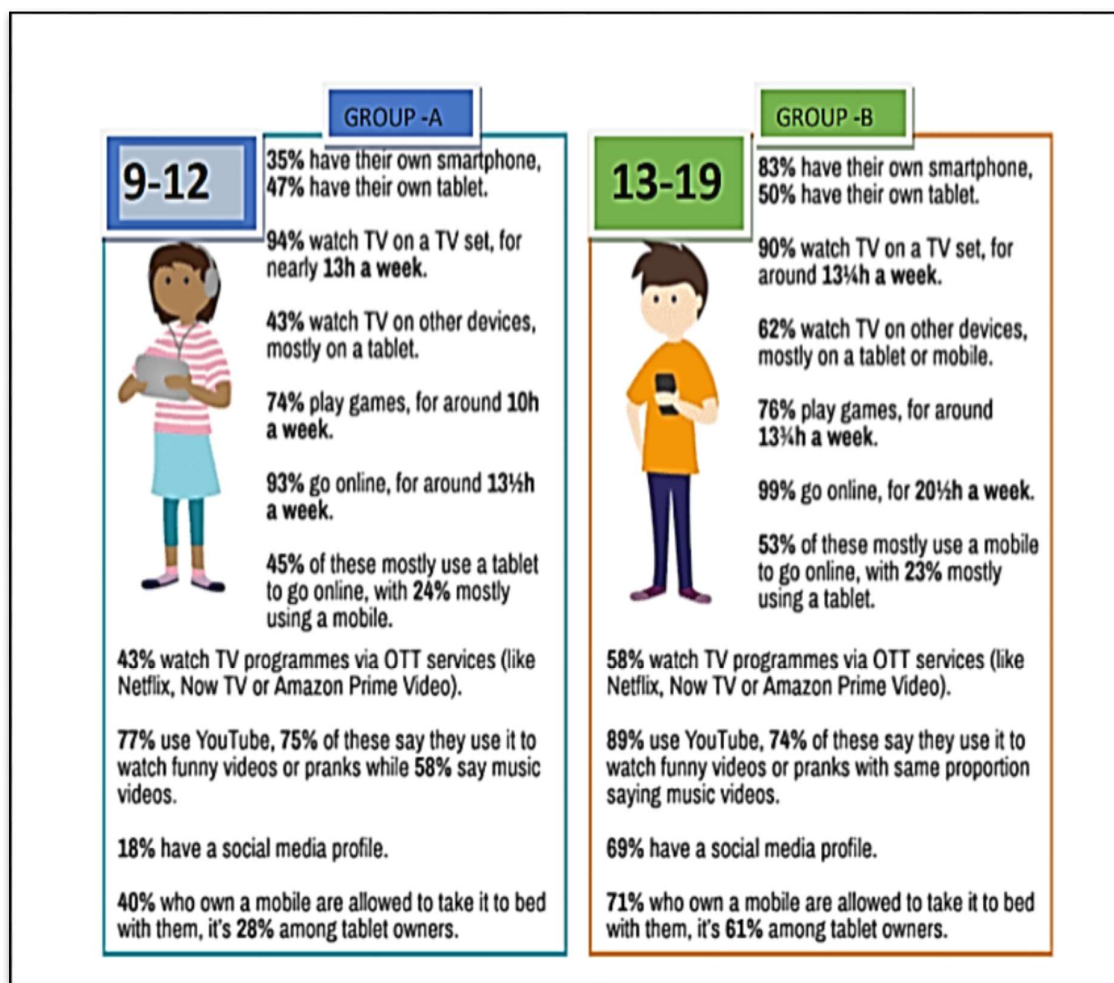
*Try reading 'Meat Eater: Adventures from the life of an American Hunter' by Steven Rinella*



## Worksheet 28

### SURVEY REPORT ON PRE-TEENS AND TEENAGERS

A study was conducted on kids of two age groups. The findings of the study are given below. Read the reports and answer the questions which follow.



1. Kids in group A spend 780 minutes per week and kids in group B spend 795 minutes per week on this activity. Which activity is this?




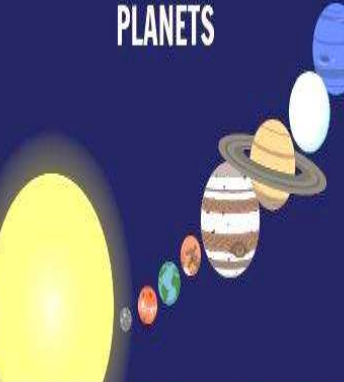
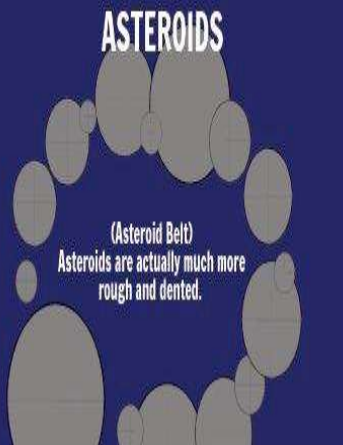
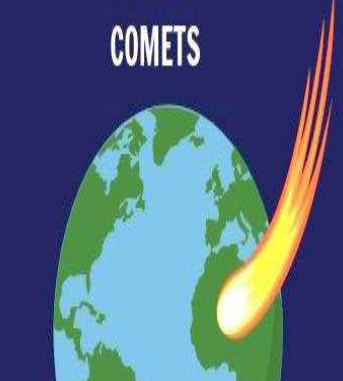
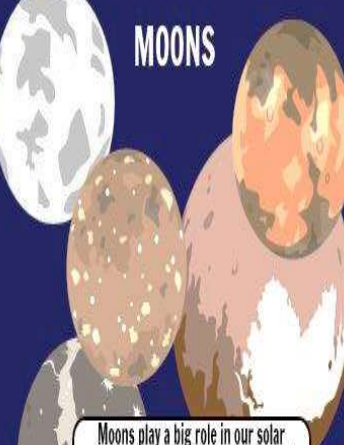
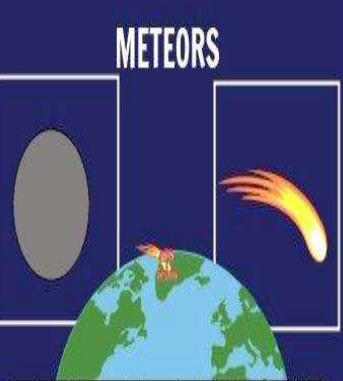
2. Which age group of children uses tablets more than mobiles to go online?
3. Name any one 'Over-The-Top' service listed above.
4. If the survey was conducted on 450 teenagers, what is the number of teenagers playing games on their mobile phones?
5. Name any social media platform and what is it mainly used for?

*Let us create:*

*Try jotting down your experience of Online learning.*

## Worksheet 29

Read the given script and answer the questions that follow:

<h3>CELESTIAL OBJECTS</h3>  <p>Celestial objects make up our solar system. There are planets, moons, asteroids, comets, meteors, and many more undiscovered objects.</p>	<h3>PLANETS</h3>  <p>There are many different planets in our solar system. The planets closer to the Sun are referred to as terrestrial/rocky planets. The planets further away from the Sun such as Jupiter, Saturn, etc. are considered gaseous planets. The planets revolve around the sun orbit on their axis.</p>	<h3>ASTEROIDS</h3>  <p>(Asteroid Belt) Asteroids are actually much more rough and dented.</p> <p>Asteroids are rocky bodies in the solar system. Most of the asteroids are found in the asteroid belt between Jupiter and Mars. They vary in sizes and shape.</p>
<h3>COMETS</h3>  <p>Comets have a main body, head, and tail. They are sometimes referred to as dirty snowballs. When you see them in the sky you usually see their tails made of vibrant colors such as blue, red, and pink. Comets are made of ice, dust, and small gritty particles</p>	<h3>MOONS</h3>  <p>Moons play a big role in our solar system and our daily lives. Moons help control our gravity. Some planets have 0 moons where others have 60 or more.</p>	<h3>METEORS</h3>  <p>A meteoroid is a small piece of rock that broke off of a comet or asteroid. A meteor is the light that appears when a meteor enters Earth's atmosphere. A meteorite is a meteoroid that lands on Earth.</p> <p>Sources: <a href="https://solarsystem.nasa.gov/asteroids-comets-and-meteors/overview/">https://solarsystem.nasa.gov/asteroids-comets-and-meteors/overview/</a> <a href="https://spaceplace.nasa.gov/how-many-moons/en/">https://spaceplace.nasa.gov/how-many-moons/en/</a></p>

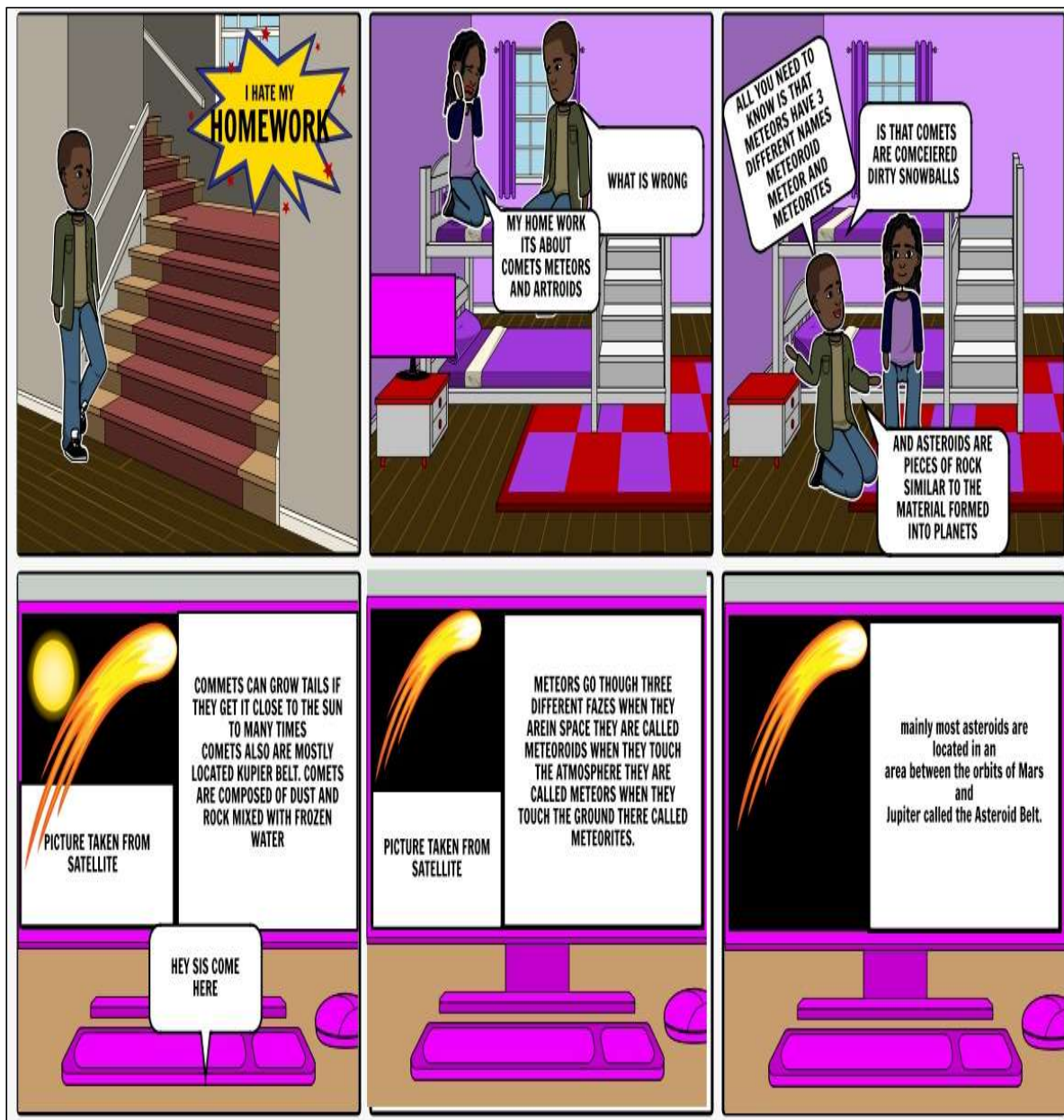
1. Which of these contain large quantity of ice?
  - a. black hole
  - b. asteroid
  - c. stars
  - d. comets
2. Between which two planets do we find the asteroid belt?
3. Divide the eight planet as Terrestrial rocky planet and Gaseous planet.
4. When a meteoroid strikes the surface of the earth scientist refer to them as:
  - a. Asteroid
  - b. Meteor
  - c. Meteorites
  - d. Comet
5. Which of these planets have the maximum number of moons?
  - a. Saturn
  - b. Neptune
  - c. Jupiter
  - d. Venus

*Let us navigate:*

*Try visiting [//freestoriesforkids.com//](http://freestoriesforkids.com//)*

## Worksheet 30

Study the below given script and answer the questions that follow:



1. What is an object made of ice, gas and dust and orbit around the sun called?

2. If Asteroid: Asteroid belt:: Comet: \_\_\_\_\_

- a. Kupier belt
- b. Planetary rings
- c. Oort cloud
- d. none of the above

3. Name any one Indian Astronomer who has travelled to space?

4. Name the only known short period comet that is regularly visible to the naked eye from the Earth.

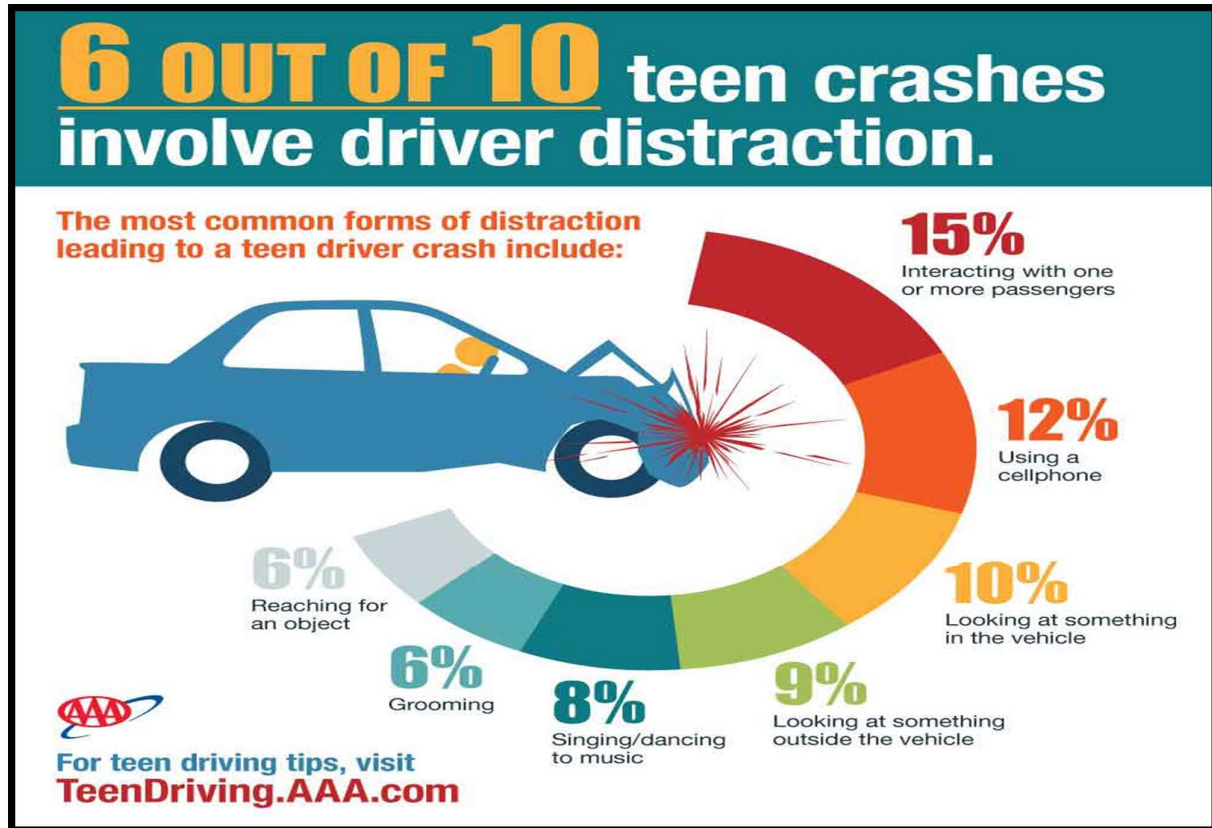
- a. Comet Mc Naught
- b. Halley's Comet
- c. Comet Encke
- d. Biela's Comet

5. Name the country which entered the orbit of Mars first?

*Let us create:*


*Try making a cartoon strip on your online learning experience.*

## Worksheet 31




"Everywhere is walking distance if you have the time," said by Steven Wright. Everyone has felt that feeling where they can hardly wait to get behind the wheel and start driving. The causes of accidents among teenagers are distractions, driving under the influence of alcohol and inexperience. When teenagers allow themselves to be distracted from keeping their focus on the road it lessens their response time to actions that may need to be taken to avoid accidents. Not having the ability to quickly ascertain a situation and respond appropriately, due to lack of experience is another cause of accidents. Most teens view their driving as safe; however, a large proportion of teens are dangerous to others on the road and reckless teenage [driving](#) has become a number one killer.






## 6 STEPS WHAT TO DO AFTER A CAR ACCIDENT

**1** 


### Stop Your Vehicle

However minor you think a car accident is, you must stop. In fact, failing to do so is an offence under the Road Traffic Act.

**2** 

### Call The Police

This is a key legal requirement for insurance claims to be made, and it will also help to build the official record of the accident itself.

**3** 


### Take Photos

Photographs of the vehicle and of the accident scene. Photographs of your injuries immediately after the accident.

**4** 

### Gather Information

All drivers involved should swap names, addresses, tel no, vehicle registration & insurance company details and policy info.

**5** 

### Find Witnesses

If possible, you should collect names, addresses and contact details from any drivers, passengers and witnesses.

**6** 

### Contact A Lawyer

You may be entitled to make an accident claim for many different accidents such as road traffic accidents.

**Observe the images and read the text given above and answer the questions:**

1. The highest percentage of the reasons for causes of teen driver crashes is of:
  - a. looking for something outside the vehicle.
  - b. singing / dancing to music.
  - c. interacting with one or more passengers.

2. Which of these is NOT a reason for teen driver crashes?
  - a. driving under the influence of alcohol.
  - b. quick response in crucial moments.
  - c. distractions like grooming, using a cell phone.
3. Failing to stop the vehicle after an accident is an offence under the.....
4. What information should be gathered by the persons / drivers involved in the accidents?
5. Find the word which means the same as:
  - a. find out for certain / make sure of .....
  - b. a part or share considered in relation to a whole .....
  - c. having legal right to something .....
6. Why do you think it is important to take photographs of the accident scene and injuries?
7. Match the idioms using the word driving with their meanings:

#### **IDIOMS**

#### **MEANINGS**

- |                                  |  |
|----------------------------------|--|
| a. in the driver's seat          | a. to suddenly change what you're doing  |
| b. drive to distraction          | b. in control of a situation             |
| c. shift gears exhausted         | c. to work so hard that you become       |
| d. drive oneself into the ground | d. to greatly annoy or frustrate someone |
8. If there is a sample size of 150 drivers in a class, what number of drivers are distracted while using cell phones and cause a crash?

*Let us draw:*

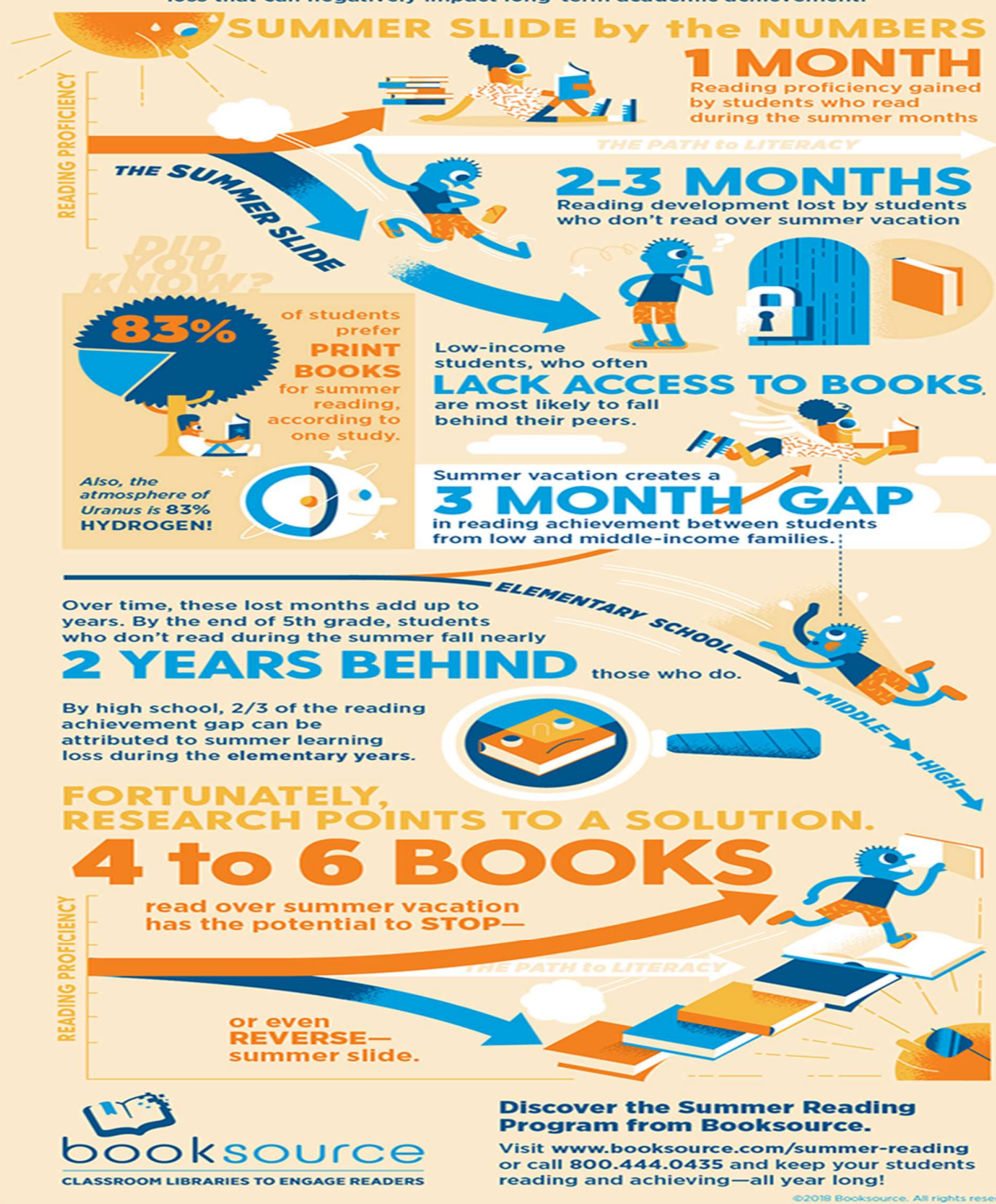
*Draft a poster on safe driving to make people aware of hazards of reckless driving.*



## Worksheet 32

# STOP SUMMER SLIDE WITH SUMMER READING

Summer vacation means more than just fun in the sun. When students head out of the classroom and take a break from the books, they risk serious summer learning loss that can negatively impact long-term academic achievement.



**Observe and read the above information carefully and answer the questions that follow:**

1. The students who don't read in summer vacations face a loss of reading development of about:
  - a. 1-2 months
  - b. 2-3 months
  - c. 3 months
2. Complete the statements:
  - a. The summer reading loss adds upto nearly ..... by the end of fifth grade.
  - b. The percentage of students preferring to read print books is the same as the presence of .....
  - c. According to a study, the summer slide can be reversed by .....
  - d. Mostly the children from low-income groups fall behind their peers because they.....
3. What do you understand by the term 'summer slide'?
4. In your opinion, what are the advantages of reading print books over e-books?
5. Find the word from the image which mean the same as:
  - a. a high degree of skill or expertise .....
  - b. to explain something by indicating a cause .....
6. Match the idioms related to books to their meanings:

**IDIOMS**

- a. a closed book
- b. cuddle up with a good book
- c. one for the books
- d. to balance the books

**MEANINGS**

- a. an amazing event that will be remembered forever
- b. to add up all credits and debits in one's personal business
- c. to get cozy while reading a book
- d. a person or subject that few know much about


*Let us read:*

*Read a good storybook and design its cover page*

## Worksheet 33

### Keeping pets COOL when it's HOT

Brought to you by Nationwide®



## some FACTS:

- Dogs and cats **don't sweat** when they're hot; they pant.
- Many dogs don't know when to stop playing. **Limit exercise** during warmer temperatures. Go for walks early in the morning or during the evening.
- Heatstroke causes **severe brain damage**.
- **Signs of heatstroke** = Rapid, raspy panting, drooling, vomiting, weakness, collapse and seizures.
- Dog and cat breeds with **short snouts** are more susceptible to heatstroke.

### Potential dangers:

- **Pavements** can be very hot on paw pads and cause burns. Consider traction socks or shoes for dogs when walking outside.
- Protect your pets from **insect bites**; use a DEET-free repellent.
- Use **flea & tick control** during summer months.
- Pets can get **sunburn**, too. Use a pet-safe sunscreen when taking pets outdoors. (Apply to ears, nose, tail, belly.)

### DO:

Make frozen treats for pets to help cool them down and prevent dehydration.

### DON'T:

- Leave pets without a cool place to rest
- Leave pets in cars
- Leave pets outdoors
- Leave pets in garages
- Leave pets without plenty of water

Hot cars are a death trap for pets.

## Heatstroke

can occur within minutes, even with the windows open.

On a 78-degree day, the **temperature inside a parked car** can soar to between **100 and 120 degrees** in just minutes and on a 90-degree day, it can reach as high as **160 degrees** in less than 10 minutes.

### Hot Car facts



### Insect Bite & Sting

\$176\*

### Heatstroke

\$557\*

### Burns

\$219\*

\*Actual Nationwide claim, including exam, medication, tests, hospitalization, fluids and anesthesia





Observe the image given above and answer the following questions:

1. State whether the given statements are True or False:

- Dogs and cats perspire like human beings to cool down.
- Rapid ,raspy breathing, drooling, vomiting are signs of a heat stroke.
- A dog's normal body temperature is about 109 degree Fahrenheit.
- Large ,heavy-coated dog breeds are more at risk of heat stroke.

e. Traction shoes or socks are a good option to save the paws of the dogs from heat.

f. Plenty of exercise is recommended for the dogs during warm months.

**2. Complete the following statements:**

a. Hot cars are a .....

b. Using very cold water to lower their temperature is not recommended as it can.....

c. Dogs reduce their body heat through ..... and .....

d. To prevent sunburn, sunscreen can be applied to the..... , ..... , ..... and .....

e. Making..... is one of the ways to prevent dehydration.

3. List any four things that one must NOT do save pets from heat strokes.

4. Name the disease that is caused due to the bite of a stray dog. What can be done to control the menace of stray dogs?

5. Suppose you have a dog at home. You wanted to make it look good. How would you do that?

6. Convert 109 degree Fahrenheit to Celsius.

7. Find words from the image which mean the same as:

a. lack of energy or enthusiasm. ....

b. likely to be harmed or influenced by a particular thing .....

c. delay or prevent something by obstructing them .....

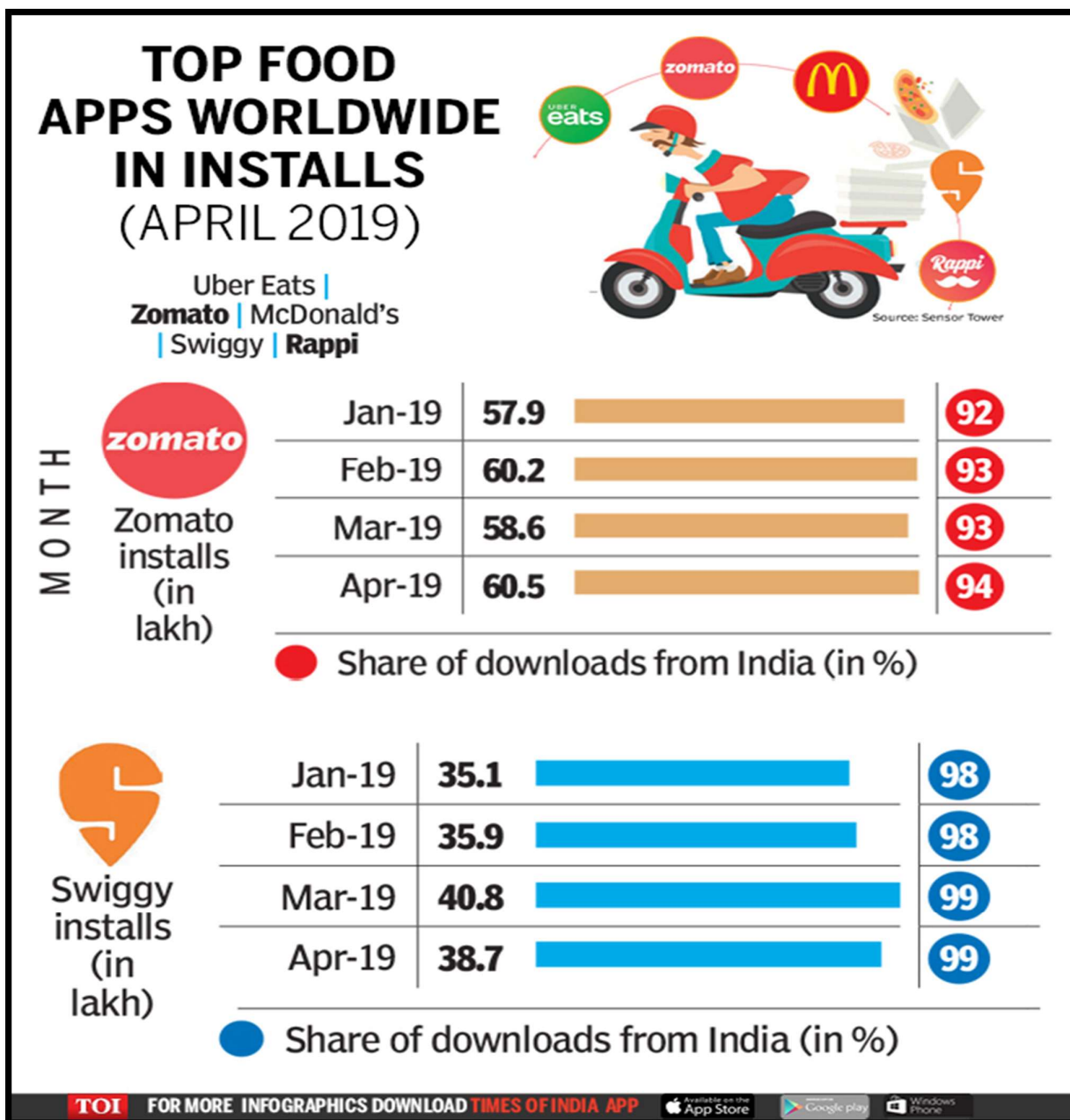
*Let us find out:*

*How dogs become our best friends.*

*Log on to- <https://youtu.be/DtOHKSdRRw>*

## Worksheet 34

Online food-delivery platforms are expanding choice and convenience, allowing customers to order from a wide array of restaurants with a single tap of their mobile phone. The business of delivering restaurant meals to the home is undergoing rapid change as new online platforms race to capture markets and customers across America, Asia, Europe, and the Middle East.



By far, the most common form of delivery is the traditional model, in which the consumer places an order with the local pizza parlor or Chinese restaurant (although many other kinds of restaurants, particularly in urban areas, now offer delivery) and waits for the restaurant to bring the food to the door. This traditional category has a 90 percent market share, and most of those orders—almost three-quarters—are still placed by phone.

However, as in so many other sectors, the rise of digital technology is reshaping the market. Consumers accustomed to shopping online through apps or websites, with maximum convenience and transparency, increasingly expect the same experience when it comes to ordering dinner.

### **Two tiers for online food delivery**

Two types of online platforms have risen to fill that void. The first type is the “aggregators,” which emerged roughly 15 years ago; the second is the “new delivery” players, which appeared in 2013. Both allow consumers to compare menus, scan and post reviews, and place orders from a variety of restaurants with a single click. The aggregators, which are part of the traditional-delivery category, simply take orders from customers and route them to restaurants, which handle the delivery themselves. In contrast, the new-delivery players build their own logistics networks, providing delivery for restaurants that don’t have their own drivers.

### **On the basis of the above information, answer the following questions:**

1. The number of apps mentioned in regard to installation worldwide in April 2019 are:

- a. 3
- b. 4
- c. 5

2. The difference in the highest and lowest installation of Swiggy stands at:

- a. 5.7
- b. 3.6
- c. 2.1

3. Fill in the blanks:

- a. .... leads the pack taking into consideration the share of downloads in India.
- b. Zomato installation is highest in the month of ..... at ..... .
- c. New online platforms are in a race to capture markets across..... , ..... , ..... and .....
- d. The most common form of delivery is one in which the consumer places an order with ..... or ..... .
- e. .... and ..... are the two types of online platforms that have risen to fill the growing demands of the consumers.

4. How is digital technology reshaping the market in terms of ordering food?

5. List the similarities between the two types of online delivery platforms.

6. What is the major point of difference between the aggregators and new delivery players ?

7. Find words from the above information which mean the same as:

- a. opening / gap
- b. the detailed organization and implementation of a complex operation

*Let us create:*

*Try designing a new rapper for your favorite biscuit brand.*



## Worksheet 35

**Directions: Read the following passage and answer the questions that follow.**

The year was 1999. The night was December 31st, New Year's Eve. The world watched and waited. It was a night of celebration. But it was also a night of fear. People had grown to depend on computers. Computers powered our banks. They ran our companies. Would they all break at midnight? Some thought that they might. But why?

The Year 2000 problem, or Y2K, had to do with computer storage. Computers store data and files in memory. Computer memory is cheap these days. Some companies will give you cloud storage for free. But in the early days of computing, memory was very expensive. One kilobyte (about 1,000 characters of storage) might cost as much as \$100 USD.

People had to think of ways to use less storage. One way they did this was by storing only the last two digits of the year. Instead of saving the date as *07/02/1979*, they would save it as *07/02/79*.

This seemed like a good idea at first. But as the years passed, the turn of the century neared. Would our computers know that it was the year 2000 instead of the year 1900? How could they? What would happen if they got the dates wrong? Would the computers break?

The Y2K problem worried many people. Some feared that banking system

wouldn't work. Payments might fail. Cash registers might break.

Another fear was that transportation systems would break. Taxi meters could stop working. Airline computers could fail. Traffic lights could shut down. The Y2K problem was very worrisome.

But people didn't just wait for their systems to fail. They worked hard to prevent the bugs. Governments passed laws. Businesses upgraded their systems. People rewrote software. Some think over \$300 billion dollars were spent fixing the Y2K problem. But were people really prepared when it happened?

As clocks turned and calendars flipped to the year 2000, there were very few problems. Air planes did not fall from the sky. Power grids did not shut down. Bank accounts did not get wiped out. We had avoided the worst.

A few bugs and errors happened around the world. Some bus ticket machines in Australia stopped working. Some slot machines in Delaware broke. Certain cell phones in Japan deleted new text messages. But most computers kept working just fine. Will things work out the same way for the Year 2038 problem (Y2K38)? Only time will tell.

**1. Which best describes the Y2K problem?**

- a) Magnetic waves might erase all computer memory.
- b) Computers would cost too much for most families.
- c) A computer virus would spread and break all systems.
- d) Computers might get the date wrong and malfunction.

**2. Which best explains why programmers shortened dates in computer storage?**

- a) They were in a big hurry.
- b) They were trying to save money.
- c) They were being lazy.
- d) They were creating more work for themselves.

**3. Which best describes the author's purpose in writing the SIXTH paragraph?**

- a) He is describing fears related to transportation and the Y2K bug.
- b) He is informing readers of how computers help people.
- c) He is explaining how a terrorist attack affected America on 9/11.
- d) He is persuading readers to back up their computer storage.

**4. Which is NOT a way that people addressed the Y2K problem according to the text?**

- a) Programmers rewrote software.
- b) Companies upgraded their computer systems.
- c) Individuals threw away outdated computers.
- d) Governments created legislation.

**5. Which of the following was NOT listed in the text as a fear related to Y2K?**

- a) Traffic control devices would fail.
- b) School bells would not ring on time.
- c) Bank systems would malfunction.
- d) Airline computers would stop working.

**6. Which best describes HOW the Y2K bug affected the world?**

- a) Many computers malfunctioned and it was a catastrophe.
- b) All computers stopped working and the damage was tremendous.
- c) A small number of computers malfunctioned but it was no big deal.
- d) Most computers stopped working and it cost a lot of money.

**7. With which statement would the author most likely AGREE?**

- a) It was a tragedy that people did not prepare more for Y2K.
- b) Y2K was never a problem and people were worried for no reason.
- c) Computers create more problems than they solve.
- d) Since people prepared for Y2K, it wasn't much of a problem.

**8. Which was NOT an error caused by the Y2K bug?**

- a) Credit card processors around the world went down.
- b) Bus ticket machines in Australia stopped working.
- c) Cell phones in Japan deleted new messages.
- d) Slot machines in Delaware malfunctioned.

**9. What lesson can readers learn from this text?**

- a) Technology is frustrating and not worth having.
- b) Our dependence on technology can be scary at times.
- c) Robots and AI will take over the world one day.
- d) Y2K was the worst catastrophe in history.

*Let us create:*

*Try making a robot on an A4 sheet.*

## Answer key

### Worksheet 1

On the basis of the above information, answer the following questions:

1. 'Poaching' is defined as the illegal hunting or capturing of wild animals.
2. The major reason for many endangered animals being killed every year is **that criminal syndicates are eager to sell the spoils of their slaughter abroad.**
1. The people who try to expose the poachers are silenced or assassinated by the criminal syndicates.
2. Kenya is home to roughly 38,000 elephants according to recent estimates, which may account for its astronomically high rates of elephant poaching. Whereas India and South Africa are home to far fewer elephants.
5. India has higher cumulative poaching totals than either African nation because of the:

#### **b. biodiversity and geographical scale.**

6. From the pie chart given above, what is the total percentage of animals under the category least concern and data deficient?

#### **b. 54%**

7. 5750 animals
8. No of rhinos in Kenya and S.Africa =  $233 + 21.3 = 254.3$

No. of rhinos in India = 19.6

Rhinos in India are less by =  $254.3 - 19.6 = 234.7$

#### 9. **IDIOMS**

#### **MEANINGS**

- |                             |   |
|-----------------------------|---|
| a. Let sleeping dogs lie    | a. leave it alone                               |
| b. On a wild goose chase    | b. chasing something that's impossible to catch |
| c. Wolf in sheep's clothing | c. someone dangerous but pretending to be weak. |
10. Find words from the passage which mean the same as:
    - a. exposed to the possibility of being attacked or harmed **vulnerable**
    - b. give official permission or approval **sanctioned**
    - c. increasing rapidly **escalating**

## **Worksheet 2**

1. d) all of the above
2. Street theatre is not seen in India these days. (False)
3. c) every where
4. Which of these is not likely to be a topic of street play:  
d) beauty of trees
- 5 b) cost-effective and flexible

## **Worksheet 3**

1. Primitive man's important use for fire was  
(d) Both (a) and (b)
2. The firebrand was used to  
(b) provide light
3. Lamps probably developed through mere  
(c) chance
4. Early lamps were made by  
(d) floating a reed in the sea-shell
5. Do you think fire can be a good servant but bad master.  
(Subjective)

## **Worksheet 4**

1. Option b- sugar
2. Option a- cinnamon
3. Option c- 10
4. Option d- cinnamon
5. Salt and sugar

### **Worksheet 5**

1- D. oreganos

2-C. junk food

3-any edible oil (or any relevant answer)

4- onion, pepper, broccoli

5- ☐ Pasta requires boiling in water whereas vegetable needs cooking in oil.

☐ Need different cooking time.

### **Worksheet 6**

1. When we assign a particular role or duty to a gender we call it gender stereotyping.
2. Women can become better nurses than men. ii) Google searches show males only when you look for the images using the term farmer.
3. Kinder Joy
4. This is an infamous stereotype. Driving is a task which can be learnt by anyone irrespective of gender. But mostly people feel that women are not intelligent enough to learn driving.

### **Worksheet 7**

1. Happy mood

2 Down tail shows us that cat is worried.

3. Crazy mood.

4. Mad means angry.

5. Option c - tiger

### **Worksheet 8**

1) 12 July

2) 7

3) 25hr 25min

4) May be he is veterinary doctor / or maybe he is not a medical practitioner but a doctor by education/ HE has got PhD degree / or any other relevant answer

## Worksheet 9

1. (c) the umbrella was really very precious.
2. (c) Thursday
3. (c) The umbrella was a problem to the customers' nose and eyes.
4. Chhatre's act of donating the umbrella to Francis reveals that  
(d) he could not afford to spend money to collect it.
5. On the basis of these two letters, which of the following can be inferred to be definitely true?  
(c) The departmental store is closed on Saturday.

## Worksheet 10

### 1. Individual

- A) Creating comfort
- B) Pursuing Interest
- C) Achieving goals
- D) Relaxing
- E) Personalisation of space

### Social

- A) Having friendly neighbour
- B) Caring for each other
- C) Family time
- D) Socialising
- E) Team Work
- F) Acts of kindness

2) 48%

3) Social

4) Having friendly neighbour

Reason- our lives are busy so we don't connect with our neighbour / I don't like interference from neighbours / I like to be with my friends over phone or go to their place and being with neighbours / I do not know my neighbours (or any other valid statement)

5) Family time is best because Family helps and supports each other / takes care of each other / makes us laugh / creates strong bonds between family members / grandparents take care of grandchildren when parents are busy / we have someone to share our problems / family looks after us when are unwell ( or any other valid points) select any two.

### **Worksheet 11**

1 Nepal

2 Nepal with 181 death or 63 %

3 Avalanches

4 8 years

5 By falling because climbers are expert in climbing / they are trained / they are well equipped / etc. (or any other relevant answer)

### **Worksheet 12**

1-D) All of the above.

2-D) Cashier's room

3-☐ Grade 1-4 teacher's office.

▪☐ Grade 5-8 teacher's office.

▪☐ Dean's office.

4- Dean's office.

5- ☐ The room is very spacious.

▪☐ A lot of beds are provided.

▪☐ It is near to the washrooms.

### **Worksheet 13**

1 . b – United States of America

2 . c – 7.5 million

3 . d - 17

4 . c – 6.4 million

5 . d – 1.1 million



### **Worksheet 14**

1. ● Major Metropolitans.

- Most Frequently Used Airports.

2. ● Probably the most active months of the year.

Random selection of months for study

Or any other suitable answer

3. ● As airport away from city and birds and animals tend to be away from densely populated area this may be the reason.

- increasing the bird population may also be the reason.
- any other relevant answer.

4. The rest of the cases did not report any substantial damage.

5. Indira Gandhi International Airport

### **Worksheet 15**

1. a - 1972

2. a-21 Jan

3. c - Directorate of Information and Public Relations

4. Shillong is the capital city of Meghalaya

5. So, that entries can be judged and winners probably will be prized on 21st Jan 2019.

### **Worksheet 16**

1. July and August

2. 18.9

3. 3.9

4. 1.1 cm

5 degree Celsius (C), and Kelvin (K)

### **Worksheet 17**

- 1 Bees beetles – clicking  
Cicadas – squeaking  
Bees – buzzing  
Cricket – chirping
- 2 Mosquitoes and bees
- 3 (a) higher (b) lower
- 4 Cicadas
- 5 to produce unpleasant sound

### **Worksheet 18**

1. b. Mt. Everest
2. b. Olympus
3. c. a & b
4. b. Mt. Tyree  
c. Mt. Logan  
d. Mt. Cho Oyu  
a. Mt. K2
5. a. Cape Town

### **Worksheet 19**

1. b. convection
2. d. early afternoon
3. a. heat
4. d. from the sea to the land
5. Any four pairs of antonyms given below:  
Day & night  
Lower & higher  
Valley & mountain  
Up & down  
Lower & higher  
Day time & night time  
Onshore & offshore

**Worksheet 20**

1. a) Black Lives Matter
2. Skin lightening cream
3. d) Promoting the superiority of men over women
4. b) fairness
5. Criticism

**Worksheet 21**

1. Rajasthan
2. 0.26 lakhs
3. Livestock census of camel 2012
4. Rajasthan
5. Livestock census of camel 2012

**Worksheet 22**

1. 12163
2. Solapur Junction
3. 539 kms
4. Platform no.2
5. 7hrs 30 minutes

**Worksheet 23**

1. D – Vernal Equinox  
B – Summer Solstice  
C - Autumn Equinox  
A – Winter Solstice
2. A – Equator
3. D – Spring and Summer
4. D – dreary, humid, incoherent, shot-put
5. C - Orbital plane

**Worksheet 24**

1. B – Sawai Pratap Singh
2. C – hunting lodge
3. C – 4 stories
4. C – limestone mortar and red sandstone

**Worksheet 25**

1. Rabies, canine, distemper virus, canine parvovirus, feline immunodeficiency virus and feline leukaemia virus.
2. b) 1648.78 square km.
3. The number of lions has started rising considerably. In 2001, the number of lions was 327 which has risen to 523 in 2015.
4. b) 59.9
5. b) join hands

**Worksheet 26**

1. a) my mom is the centre of our house.
2. Sakhi
3. b) 45.3
4. b) it means complainant can call for help at any hour of the day, any day of the week at no cost.
5. Awareness, strict laws, change in the mindset, education of the girls etc

**Worksheet 27**

1. The shooters are sitting in the long grass.
2. The person sitting behind is looking for the prey with the help of binoculars.
3. Shooters take a dog along with them on shooting as dog alerts them by barking if wild animal tries to attack shooters.
4. The forest is the best place for shooting.
5. The shooters hide them in the grass during shooting so that animals couldn't see them easily.

### **Worksheet 28**

1. Watch TV on a TV set
2. Group-A, (Pre-Teens)
3. Amazon Prime, Now TV, Netflix
4. 342
5. Individual response

### **Worksheet 29**

- 1 Comets
- 2 Between Jupiter and Mars +
- 3 Terrestrial rocky planet : Mercury, Venus, Earth, Mars  
Gaseous planet: Jupiter, Saturn, Uranus, Neptune
- 4 Meteorites
- 5 Saturn

### **Worksheet 30**

- 1 Comets
- 2 Kuper belt
- 3 Kalpana Chawla / Rakesh Sharma ( any one)
- 4 Halley's comet
- 5 India

### **Worksheet 31**

1. The highest percentage of the reasons for causes of teen driver crashes is of:  
**c. interacting with one or more passengers.**
2. Which of these is NOT a reason for teen driver crashes?  
**b. quick response in crucial moments.**
3. Failing to stop the vehicle after an accident is an offence under the **Road Traffic Act**
4. **Swap names, addresses, telephone numbers, vehicle registration and insurance company details.**

a. find out for certain / make sure of	<b>ascertain</b>
b. a part or share considered in relation to a whole	<b>proportion</b>
c. having legal right to something	<b>entitled</b>

7. Match the idioms using the word **driving** with their meanings:

## MEANINGS

8. Sample size = 150

$$\text{Number of drivers} = \frac{12 \times 150}{100} = \mathbf{18 \text{ drivers}}$$

1. The students who don't read in summer vacations face a loss of reading development of about:  
**b. 2-3 months**
2. Complete the statements:
  - a. The summer reading loss adds upto nearly **two years** by the end of fifth grade.
  - b. The percentage of students preferring to read print books is the same as the presence of **hydrogen in the atmosphere of Uranus**
  - c. According to a study, the summer slide can be reversed **by reading 4 to 6 books over the summer break**
  - d. Mostly the children from low-income groups fall behind their peers because **they lack access to books**
3. 'Summer slide' means when students head out for a summer break and neglect reading, it leads to great loss and gap in academic achievement
4. The advantages of reading print books over e-books is that they are easier on the eyes, you are less likely to get distracted, they help us sleep better, they amplify the joy of reading
5. Find the word from the image which mean the same as:
  - a. a high degree of skill or expertise **proficiency**
  - b. to explain something by indicating a cause **attributed**

6. Match the idioms related to books to their meanings:

**IDIOMS**

- a. a closed book
- b. cuddle up with a good book
- c. one for the books
- d. to balance the books

**MEANINGS**

- a. a person or subject that few know much about
- b. to get cozy while reading a book
- c. an amazing event that will be remembered forever
- d. to add up all credits and debits in one's personal business

**Worksheet 33**

**1. State whether the given statements are True or False:**

- a. Dogs and cats perspire like human beings to cool down. **False**
- b. Rapid ,raspy breathing, drooling, vomiting are signs of a heat stroke. **True**
- c. A dog's normal body temperature is about 109 degree Fahrenheit. **False**
- d. Large ,heavy-coated dog breeds are more at risk of heat stroke. **True**
- e. Traction shoes or socks are a good option to save the paws of the dogs from heat. **True**
- f. Plenty of exercise is recommended for the dogs during warm months. **False**

**2. Complete the following statements:**

- a. Hot cars are a **death bed for pets**.
- b. Using very cold water to lower their temperature is not recommended as it can **constrict their blood vessels and impede cooling**.
- c. Dogs reduce their body heat through the **pads of their feet** and **panting**.
- d. To prevent sunburn, sunscreen can be applied to the **ears ,nose , tail** and **belly**
- e. Making **frozen treats** is one of the ways to prevent dehydration.
- 3. Don't leave pet outdoors, in garages, in cars and without plenty of water.
- 4. Rabies is caused due to the bite of a stray dog. Mass sterilization and vaccination can be carried out. Stray dogs can be moved to shelters.
- 5. Keeping them clean and groomed always, dressing them in clothes, making them wear accessories like hats, sunglasses, anklets etc, trying out different hairstyles

6. Formula=  $(32 * F - 32) \times \frac{5}{9}$

Ans= 42.77 degree Celsius

7. Find words from the image which mean the same as:

- a. lack of energy or enthusiasm.
- b. likely to be harmed or influenced by a particular thing
- c. delay or prevent something by obstructing them

**lethargy**

**susceptible**

**impede**

### Worksheet 34

1. The number of apps mentioned in regard to installation worldwide in April 2019 are:

**c. 5**

2. The difference in the highest and lowest installation of Swiggy stands at:

**a. 5.7**

3. Fill in the blanks:

a. **Swiggy** leads the pack taking into consideration the share of downloads in India.

b.. Zomato installation is highest in the month of **April** at **60.5** .

c. New online platforms are in a race to capture markets across **America, Asia, Europe and Middle East** .

d. The most common form of delivery is one in which the consumer places an order with **a local pizza parlour** or **Chinese restaurant** .

e. **Aggregators** and **New delivery players** are the two types of online platforms that have risen to fill the growing demands of the consumers.

4. Consumers accustomed to shopping online through apps or websites, with maximum convenience and transparency, increasingly expect the same experience when it comes to ordering dinner.

5. Both allow consumers to compare menus, scan and post reviews, and place orders from a variety of restaurants with a single click.

6. The aggregators simply take orders from customers and route them to restaurants, which handle the delivery themselves. In contrast, the new-delivery players build their own logistics networks, providing delivery for restaurants that don't have their own drivers.

7. Find words from the above information which mean the same as:

a. opening / gap                      **void**

b. the detailed organization and implementation of a complex operation logistics



## Worksheet 35

1. d. Computers might get the date wrong and malfunction.
2. b. They were trying to save money.
3. a. He is describing fears related to transportation and the Y2K bug.
4. c. Individuals threw away outdated computers.
5. b. School bells would not ring on time.
6. c. A small number of computers malfunctioned but it was no big deal.
7. d. Since people prepared for Y2K, it wasn't much of a problem.
8. a. Credit card processors around the world went down.
9. b. Our dependence on technology can be scary at times.



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- CCT Booklet for classes 8<sup>th</sup> -10<sup>th</sup> (100 pages)

#### **Reading Literacy English**

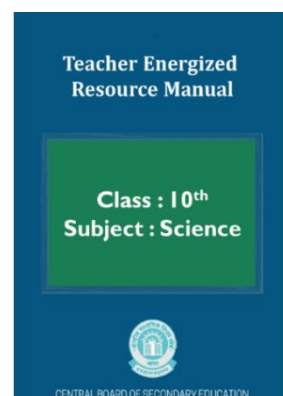
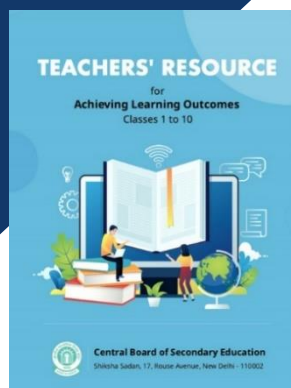
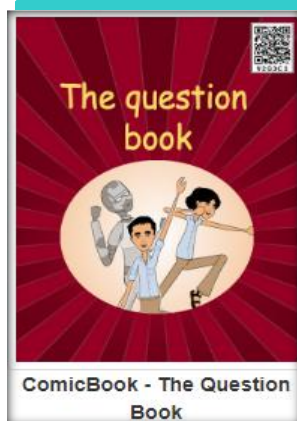
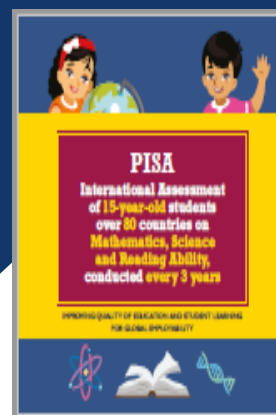
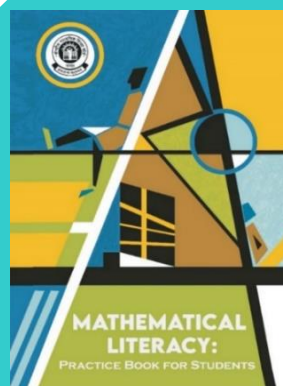
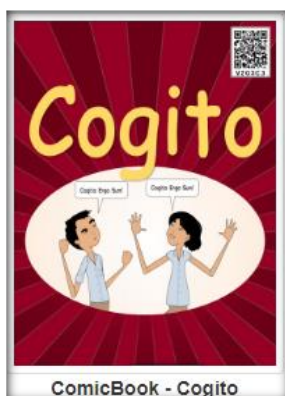
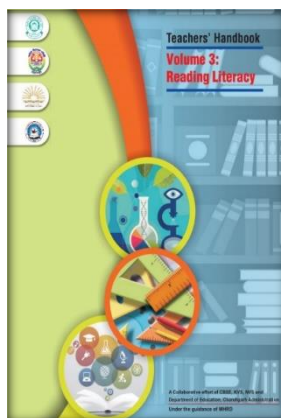
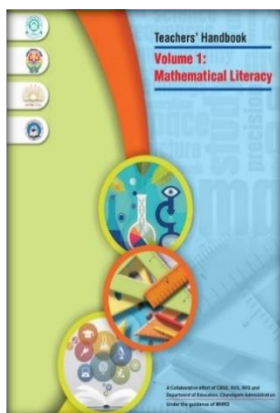
- 5 Handbooks/modules of Reading Literacy (classes 6 to 10)
- 3 Handbooks/modules of Reading Literacy for supplementary reader (classes 8 to 10)
- CCT Booklets for classes 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> (100 pages)

#### **Reading Literacy Hindi**

- 5 modules (Classes 6 to 10)
- 'Sankalp' Fortnightly Series
- Monthly CCT booklets for classes 6<sup>th</sup>- 8<sup>th</sup> and 9<sup>th</sup>-10<sup>th</sup> (January 2021 onwards)
- CCT Practice Booklets for classes 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> (100 pages)

#### **CBSE Handbooks**

- Vol.I Mathematical Literacy
- Vol.I Scientific Literacy
- Vol.I Reading Literacy
- Experiential Learning
- Joyful Teaching and Learning of Mathematics
- Art Integration
- Self-learning Resources
- Artificial Intelligence Integration Manual
- The Question Book
- Cogito
- 21st Century Skill Handbook
- Cyber Safety Manual
- Mathematical Literacy: Practice Book for Students
- PISA Primer
- Handbook of Joyful Learning



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