

As per National Education Policy (NEP-2020)

My Book of General Knowledge 5

Written by :
Sunita Arora
Edited by :
Rachna Chauhan



New Edition :

My Book of General Knowledge

Head Office :

DELHI

Our Branches :

Sahibabad, Noida, Jalandhar, Ranchi, Nagpur

Bhopal, Raipur, Guwahati, Hyderabad.

ISBN No. : 978-81-93-2565-0-1

Author : Sunita Arora

Edited by : Rachna Chauhan

2022

© Publishers

All rights reserved with the publishers. No part of this book may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means : Electronic, mechanical, photocopying, recording or otherwise without the prior written permission of publisher.

Designed by :

Edit One International

Printed by :

Mec-Doit Printers

Sahibabad, Ghaziabad (NCR)

Preface

'General Knowledge' is a comprehensive series of eight books designed specifically for the needs and requirements of students studying in classes 1-8. The content has been created keeping in mind the National Education Policy 2020. The purpose of this series is to put pupils in circumstances that need comprehension and learning. This book includes enough questions in accordance with the NEP criteria. The fundamental principles of NEP which is recognizing, identifying, and fostering the unique capabilities of each student, respect for diversity and respect for the local context in all topics, always kept in mind while framing the book.

Key Features of the Series:

With the motto of Educate, Encourage and Enlighten this book is based on NEP criterion which promotes learning and development, and tests higher-order skills, such as analysis, critical thinking, and conceptual clarity. The book has been segregated into sections emphasising upon the comprehension of information regarding various topics, such as:

- **The Living Planet** : The information related to the uniqueness and importance of our planets. It also discusses space travellers.
- **Sports Arena** : This portion discusses different aspects of sports such as origins, tournaments, trophies, etc. It talks about different types of sports, and sportsmen.
- **Incredible India** : This portion discusses the glorious past of India along with its polity, geography and legacy.
- **Awareness Plus** : The book discusses the topics of general awareness about safety and responsibility here.
- **Life Skills** : This feature of the book inculcates life skills and values in students.
- **Personality Plus** : This book also strives to be a helpful associate in the proper development of the student's personality including good manners, etiquettes, proper conduct.
- **Brainstorming** : This section consists of activity given at the end of a section urges students to apply their learning skills and helps them to retain the knowledge gained in class.
- **Let me Answer** : Discussion-oriented questions are asked to promote the students to inspire to think critically and respond with well thought out answers.
- **Teacher's Note** : A "Teacher's Note" is a set of instructions laid out for the teachers to follow in the classroom based on the worksheet, activity/exercises. It specifies how the worksheet and activities/exercises should be carried out in class.
- **Info-Bits** : Interesting facts related to the topic of the chapter are incorporated in the form of Info-Bits so as to enhance the overall learning experience of the student.

The subject of general knowledge is too broad to be covered in an eight-book series.

However, every effort has been made to make it as thorough as possible. Sincere efforts have been taken to prevent any inconsistencies and make this series a perfect complement to the students' education. Any worthwhile recommendations for how to improve the series are always welcome and greatly appreciated.

Contents

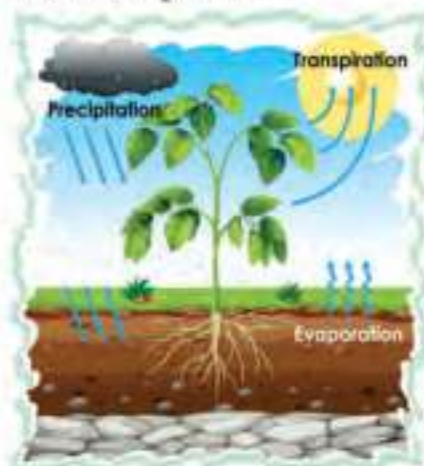
S.No.	Topics	Page No.	S.No.	Topics	Page No.
	Unit-1: Nature			Unit-4: Culture and Literature	
1.	Our Plants	5	22.	Music Instruments	40
2.	Animals and their World	7	23.	All About India	41
3.	Natural Resources & Plants	9	24.	Yoga and Good Health	43
4.	Landforms on Earth	11	25.	The World of Dance	45
	Unit-2: Science		26.	Modern Author and Books	47
5.	Space Mission and Scientists	13		Unit-5: Women	
6.	Metals and their Properties	15	27.	Indian Women	49
7.	Gadgets	17	28.	Popular International Women	50
8.	Cinematography	19		Unit-6: Sports	
9.	Food in Our Life	21	29.	All about Sports	51
10.	Scientist and Biochemicals	22	30.	Game: Football	53
11.	Scientific Instruments and Terms	24	31.	Game: Cricket	54
12.	A.I. (Artificial Intelligence)	26	32.	Sports World	55
13.	Different Faces	27	33.	Top Sports Games	56
	Unit-3: India and The World		34.	Game Facts	57
14.	Indian Personalities	28	35.	Popular International Games	58
15.	Indian Constitution	29	36.	Food Pyramid Activity	60
16.	Union Territory of India	31	37.	Health Facts	61
17.	Social Work In India	32		Unit-7: Reasoning	
18.	Important Personalities	34	38.	Matching Pair	62
19.	Union of India and National Days	35	39.	Series	64
20.	Land and River Valley	37	40.	Ranking Test	67
21.	Different Flags of Different Countries	39	41.	Analogy	70
			42.	Test Paper -1	73
			43.	Test Paper -2	74
			44.	Answer Sheet	75

Our Plants

1. Photosynthesis : In a process driven by light energy, photosynthesis is the process in which light energy is converted to chemical energy in the form of sugar.



3. Transpiration : The plant cools down when the weather is very hot, and water from the stem and roots moves upwards. It is the process of the loss of water vapour from the plant.



2. Cactus : Cactus has a Latin root that derives from the plural cactus and has more than one thousand known species. These plants are native to most of the length of North and South America. It is generally assumed that a cactus is a member of the plant family Cactaceae.



4. Dancing Plant : The dancing plant loves beautiful melodies and is known for the movement of its leaves. The dancing plant, *Codariocalyx motorius*, is unique because it can "dance" rapidly enough to see with our bare eyes.



TEACHER'S NOTE

Ask children questions about plants and describe the different plants that we see in our environment.



5. Venus Flytrap : Venus flytraps are notoriously difficult to care for. The Venus flytrap also known as *Dionaea muscipula* is a carnivorous plant native to subtropical. Although they appear self-sufficient. It is found on the East Coast of the United States in North Carolina.



Help List

Seed Stomato Stem
Fruit Roots

Let Me Answer

- Have you ever seen a variety of plants?
- Have you ever noticed different types of plants available in your environment?

Recognise the following parts of the plants and tell their correct names by using Help List.

1. Which part carries food to another part of the plant?
2. Which part helps plants to breathe?
3. Which part helps plants absorb water and nutrients?
4. Which part of the plant help plants to grow a new plant?
5. Which part of the plant contains seeds?

Info-Bits



Do you know that the leaves of the Lucky Bamboo plant grow up to one inch per month?

Animals and their World

You will find animals in almost every place on earth—from the hottest deserts to the coldest continents. Read about some animals living in different habitats and how they adapt themselves to their habitats.

1. African wild dogs : The largest population of African wild dogs remain in southern Africa and the southern part of East Africa. The African wild dog is known by many names, including Cape hunting dog or painted dog. Its scientific name is *Lycaon pictus*. These wild dogs are one of the world's most endangered mammals.



2. Cleaner wrasse : The Bluestreak Cleaner Wrasse, occurs singly, in pairs, and in groups. The five species of cleaner wrasses of the genus *Labroides* are known as carnivorous fishes. They are known cleaner wrasse.

3. Texas blind Salamanders : Texas blind salamanders are known for having a limited range of facing water pollution. Texas blind salamander is adapted for living in water underground, it has no eyes, only two small black dots under the skin. They are generally seen in deep water.



4. Boa constrictors : One of the unique kinds of snake species. Boa constrictors are powerful snakes and stealthy hunters. They live in tropical climates throughout most of Central and South America.

TEACHER'S NOTE

Ask the learners if they have seen burrows? Educate them about how hard it is to build houses. They should value everything in life.



4. Leather Turtles: Leather Turtles are found in deep water and are different in their appearance. Its carapace is covered by oily flesh and flexible, leather-like skin, for which it is named. It can easily be differentiated from other modern sea turtles by its lack of a bony shell.

5. Pangolins: Pangolins are the only mammals wholly-covered in scales and they use those scales to protect themselves from predators in the wild.



6. Eels : Eels undergo considerable development from the early larval stage to the and are predators. Eels are ray-finned fish belonging to the order Anguilliformes, which consists of eight suborders, 19 families, 111 genera, and about 800 species.

Quiz time

1. What do you understand by Pangolins?
2. Name any aquatic animal.
3. Name the semiaquatic rodent known for building dams.
4. Which insects goes under development to the larval stage?

Fill in the Blanks.

1. The five species of cleaner wrasses of the genus.....are known as carnivorous fishes.
2.adapted for living in water underground, it has no eyes, only two small black dots under the skin.
3. Boa constrictors live in tropical climates throughout most of Central and.....
4.are modern sea turtles and are covered by oily flesh.

Let Me Answer

- Have you ever wondered that tigers are excellent swimmers and capable of swimming up to six kilometres at a stretch.

Help List

Texas Blind Salamanders
South America
Cleaner Wrasse
Leather Turtles

Info-Bits

Many subspecies of tigers have already become extinct or are endangered due to hunting and loss of forest cover due to civilisation.

Natural Resources & Plants

Find the medicinal plants in the given maze and write their names in the boxes below with the help of the Help List :

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

Plants are extremely useful.
Some plants give us medicines.

1. Used as germicide.
2. Gives relief from cough in chronic bronchitis and asthma.
3. Medicine for Malaria.
4. Used to restore strength and vitality.
5. Gives drugs used to make heart strong.
6. Gives pain killer called Morphine.
7. Used as cold and cough medicine.
8. Used to remove headache.



Let Me Answer

- Which medicinal plants are beneficial to making medicines?

Help List

Cocoa Cinchona Ginseng Foxglove,
Poppy CassiaSophera Eucalyptus

Info-Bits

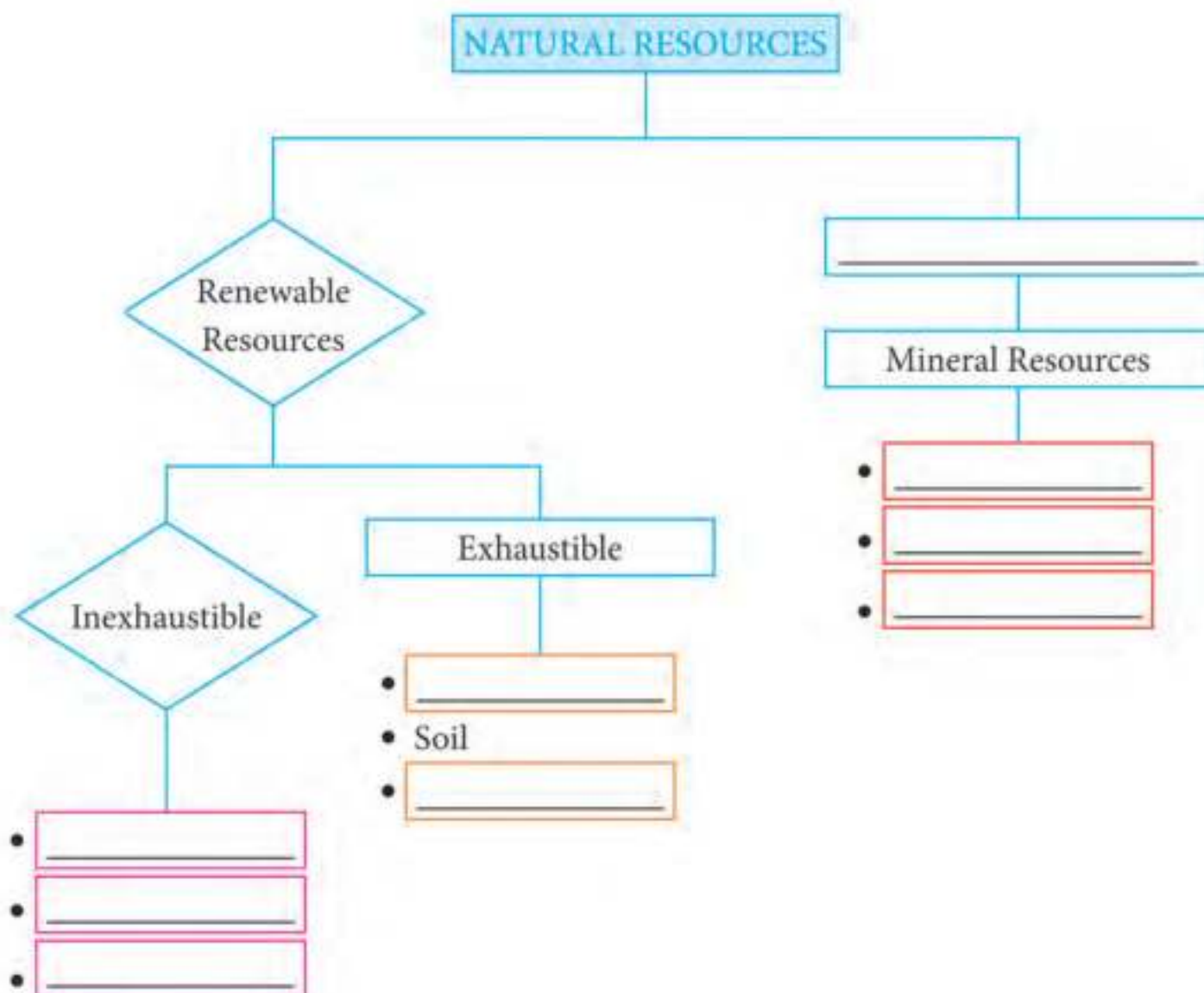
Bats' calls are ultrasonic, means high pitched, inavdible to human ears.

TEACHER'S NOTE

Explain to children the benefits of medicinal plants. Ask them questions about how they can grow medicinal plants.



Complete the flow chart with the help of the Help List :



Help List

Non-Renewable resources
Wind
Natural Gas

Water

Sunlight
Coal
Mettalic

Fuel
Non mettalic

Info-Bits

A gas takes 1300 times more space than a liquid.

Landforms on Earth

Mountains, hills, plateaus, and plains are the four major landforms. Minor landforms include buttes, canyons, valleys, and basins. Tectonic plate movement under the Earth can create landforms by pushing up mountains and hills.

Glacier : A glacier is a large, perennial accumulation of crystalline ice, snow, rock, sediment, and often liquid water that originates on land and moves downslope under the influence of its own weight and gravity.



Rapids : Rapids are characterised by the river becoming shallower. Rapids are hydrological features between a run (a smoothly flowing part of a stream) and a cascade.

Geyser : Geysers are made from a tube-like hole in the Earth's surface that runs deep into the crust. A geyser is an opening in the ground that occasionally or regularly discharges water and steam.



Canyon : Greenland's Grand Canyon was discovered in 2013 and is 466 miles (750 km) long. A canyon is a deep, narrow valley with steep sides. "Canyon" comes from the Spanish word cañon, which means "tube" or "pipe."

TEACHER'S NOTE

Organise a discussion in the classroom where children ask landform questions to each other.



Valley: Valleys are areas of land—scoured and washed out by the conspiring forces of gravity, water, and ice. Some hang; others are hollow.

Let Me Answer

- Have you ever noticed different landforms on earth?
- Which is your favourite landform?

Match the followings :

1. A hot spring from which a jet of boiling water and steam is sent into the air.
2. A deep, narrow valley with steep rocky walls and a river flowing through it.
3. A part of a river which flows very fast.
4. A mass of ice formed by snow in the mountains.
5. A low-lying area found between two mountain or hills, with a river flowing through it.



Help List

Geyser

Canyon

Valley

Glacier

Rapids

Info-Bits

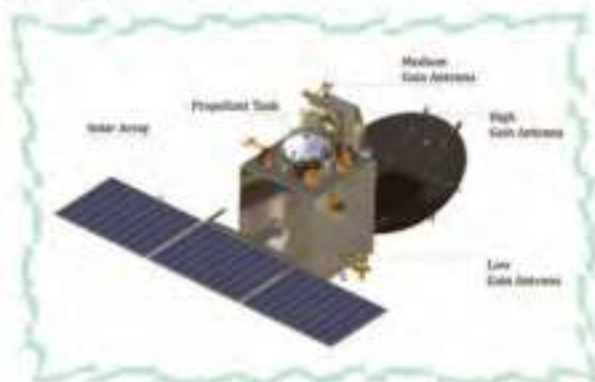
A canyon is a narrow valley with steep sides. Rivers and glaciers cut through these elevated areas.



Space Mission and Scientists

Artificial satellites are man-made objects that are sent into space, Scientists use them to study the universe, forecast weather, and so on.

Mars Orbiter Mission : India's first ever interplanetary mission was launched on 5 November 2013 and 24 September 2014, completed 5 years in orbit around Mars, sent 2 terabytes of imaging data, and had enough fuel to complete another year in orbit.



Eugene Cernan : Eugene Andrew Cernan was an American astronaut, naval aviator, electrical engineer, aeronautical engineer, and fighter pilot. During the Apollo 17 mission, Cernan became the eleventh human being to walk on the Moon.

Neil Armstrong : Neil Alden Armstrong was an American astronaut, aeronautical engineer, and the first person to walk on the Moon. He described the first step on the moon as 'one giant leap of mankind.'



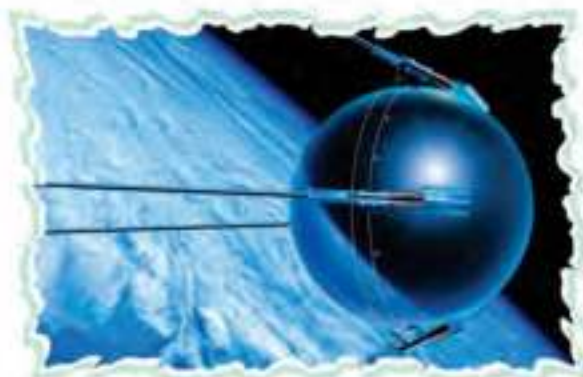
International Space Station : The International Space Station is the largest modular space station currently in low Earth orbit. It is a multinational collaborative project involving five participating space agencies.

TEACHER'S NOTE

Encourage children's curiosity and ask them questions about space. Tell facts and share knowledge about space missions.



Sputnik : Soviet Union successfully launched Sputnik I. and changed the history of space missions on October 4, 1957. The first artificial satellite to go around the earth was Sputnik 1.



Yuri Gagarin : Yuri Alekseyevich Gagarin was a Soviet pilot and cosmonaut who became the first human to journey into outer space.

Let Me Answer

- What do you like the most about Space Scientist?

Rakesh Sharma : Wing Commander Rakesh Sharma is the only Indian citizen to travel in space, although other astronauts with some Indian background were not Indian citizens.



Quiz Time

- Name the first man to travel to the moon.
- Name first human-made satellite.
- Which astronaut died in her shuttle into a space shuttle, Columbia?
- Name the second woman to venture into space which was born in India.

Fill in the blanks.

- Neil Alden Armstrong was an American.....and.....engineer.
- Cernan became the human being to walk on the Moon.
- Theis the largest modular space station currently in low Earth orbit.
- The Soviet Union successfully launched
- India's first ever interplanetary mission was launched on.....

Help List

International Space Station
5 November 2013

Astronaut
Sputnik

Aeronautical

Eleventh

Info-Bits

A scientist is a person who conducts scientific research to advance knowledge in an area of interest. Scientists are motivated to work in several ways.



Metals and their Properties

Marble : Marble is a metamorphic rock composed of recrystallised carbonate minerals, most commonly calcite or dolomite.



Diamond : Diamond is a solid form of the element carbon with its atoms arranged in a crystal structure called diamond cubic.



Limestone : Limestone is a common type of carbonate sedimentary rock which is the main source of the material lime.



Lava : Magma is an extremely hot liquid and semi-liquid rock located under Earth's surface. When magma flows onto Earth's surface, it is called lava.



Coal : Coal is mostly carbon with variable amounts of other elements, chiefly hydrogen, sulfur, oxygen, and nitrogen.



Granite : Granite is a coarse-grained intrusive igneous rock composed mostly of quartz, alkali feldspar, and plagioclase.



(I) Choose the correct answer. Use help list.

1. Ingenious rock used to make buildings is called
2. Chalk is made up ofand is a type of
3. It is called a molten rock that comes out of
4.is used to make pencil leads.

Help List

Granite
Graphite
Volcano
Sedimentary Rock
Limestone



(II) Identify the metals and write correct answers.

1. Metal is used to make electrical wires.



2. Steel is made up of the most commonly found metal which is.....

3.is used to make cans to contain drinks and food.



4.used to make jewellery. It is also known as a bright yellow precious metal.



5.is used to make coins and ornaments.

Help List

Iron gold tin silver copper

Let Me Answer

- Which metal, according to you, is the most precious?

Info-Bits

A miner is a person who extracts ore, coal, chalk, clay, or other minerals from the earth through mining.

TEACHER'S NOTE

Help students understand different types of metals and rocks available. Ask them questions about how we can preserve our natural resources.

Gadgets

The inventions of new technologies and gadgets have changed our lives. Read about some smart inventions here.



Photographic Film : Photographic film is a strip or sheet of transparent film base coated on one side with a gelatin emulsion containing microscopically small light-sensitive silver halide crystals.

E-Book : Consisting of text and images, an ebook is a kind of electronic book. It is also known as an e-book or eBook. It is generally a book published in digital format which is available for online users.



Global Positioning System : The Global Positioning System, originally Navstar GPS, is a satellite-based radio navigation system owned by the United States government and operated by the United States Space Force.

Automated Teller Machine : An ATM, which stands for automatic teller machine, allows a person to check account balances. It is a specialized computer that makes managing a bank account holder's funds conveniently. Transferring funds becomes easy through ATMs.



Smart Phone : Features of a smartphone are not originally associated with telephones. It is an operating system that allows users to access web browsing and run software applications freely. The smartphone is a cellular telephone with an integrated computer and unique operating device.

TEACHER'S NOTE

Encourage children's curiosity to learn the software. Make them familiar with recent technology and software used on school premises.



Braille : Braille is a tactile writing system used by visually impaired people, including people who are blind, deafblind or who have low vision.



Quiz Time

1. The first telescopes were created..... in 1608.
2. Spectacle makers Hans Lippershey & Zacharias Janssen and independently developed telescopes.
3. The first computer was invented by.....
4. developed computer science.
5. The was the first electronic general-purpose digital computer, it filled a room.
6. The was the world's first "personal computer."
7. India's first ever interplanetary mission was launched on.....

Help List

Galileo Galilei
Charles Babbage
Altair

5 November 2013
Hans lippershey

ENIAC(1945)
Ada lovelace

Let Me Answer

- Which is your favourite gadget?
- Which software do you operate?

Info-Bits

The first computer weighed more than 27 tons. About 90% of the world's currency only exists on computers.

Cinematography

Many people work hard to make a film. Look at the pictures given below and identify their work.

Costume Designer : A costume designer is a person who designs costumes for a film, stage production or television show. They take charge of how actors will look in their films.



Producer : A film producer is a person who oversees film production. A producer also arranges the show in the theatre. Producer work is to plan and coordinate the entire film setup. Producers generally work in production companies independently or in collaboration.

Artists Leader : The style of a leader is very important. An Artist Leader is someone who uses creativity, bravery, insight, and boldness to transform the status quo. Artist leadership is about innovation, using creativity to bring about change through communication and the application of knowledge.



Screenwriter : A screenwriter writes for drama, film and t.v shows. Screenwriting or scriptwriting is the art and craft of writing scripts for mass media such as feature films, television productions or video games. A screenplay writer who is also known as a scriptwriter is a writer who practices the craft of screenwriting on themes, especially for films.

TEACHER'S NOTE

Ask children to name one film that inspires them the most. Also them to elaborate on their answer and tell why that film inspired them.



Stunt People : Also known as stunt performers or stunt artists, A stunt man is a person who performs dangerous acts, usually within the television or movie production industry.

Film Editor : A film editor is someone who creatively works with the layers of images, story, dialogue, music, pacing, as well as the actors' performances to effectively "re-imagine" the scene and film plot. Film editors assemble footage of feature films, television shows, documentaries, and industrials into a seamless end product.



Cinematographer : A cinematographer, also known as a Director of Photography, is a person who takes charge of the entire crew. From camera and the lighting crew to creating the look, a film set setup and framing of every single shot in a film. Cinematographers are responsible for the entire film production.

Quiz Time

1. National Film Awards started in which year?
2. Which actor did a voice-over in the film Soul?
3. Which film was awarded the best film in 2018?
4. Name a film inspired by the name of Captain Vikram Batra.

Let Me Answer

- Have you ever thought of creating an inspiring film?
- If you get a chance to make an inspiring film, what will you create and why?

Fill in the blanks.

1. A..... also known as a Director of Photography is a person who takes charge of the entire crew.
2. A stunt man is a person who performs acts in
3. Artist leadership is to bring change throughand take charge of how actors will look in their films.

Info-Bits

The key ingredients that make a movie "good" are acting, directing, writing, cinematography, and overall production.

Help List

Cinematographer
Production industry
Creativity
Costume designer.

Food in Our Life

The act of making food or drink impure by adding another substance to it, is called adulteration. Adulterated food is harmful for us.

Tick (✓) the common adulterant to the food material:

Food Material	Common Adulterant
1. Cereals	☐ Stone pieces
2. Pulses	☐ Sugar
	☐ Starch
	☐ Metanil yellow
3. Turmeric	☐ Metanil yellow
	☐ Lead chromate powder
4. Coriander	☐ Cow dung
	☐ Brick powder
5. Black pepper	☐ Argemone seeds
	☐ Papaya seeds
6. Chilli powder	☐ Brick powder
	☐ Urea
7. Mustard seeds (oil)	☐ Argemone oil
	☐ Sand
8. Milk	☐ Urea
	☐ Water
9. Asafetida (Heeng)	☐ Colours
	☐ Sand
10. Ghee	☐ Jaggery
	☐ Vanaspati



Let Me Answer

- Which is your favourite food?
- What do you like to eat daily?

Info-Bits

PFA standards have been developed to minimise adulteration.

TEACHER'S NOTE

Explain to the children the basic nutrients we get from healthy food. Ask them how to include a healthy diet in their daily routine.

Scientist and Biochemicals

10

Write the name of the scientist with the help of the Help List:

1. is the English mathematician, who gave the law of gravity.
2. is the Indian physicist, who discovered the Raman effect.
3. is the Swedish chemist, who invented dynamite.
4. gave the structure of insulin molecule.
5. is the British physicist, who gave the internal structure of an atom.
6. isolated elemental gases from the atmosphere.
7. is the British engineer, who invented the steam engine.
8. brothers built and flew the first successful aeroplane.
9. discovered X-rays.
10. discovered the Polio vaccine.



Help List

Roentgen
W. Ramsay
C.V. Raman
A. Nobel
Newton
F. Sanger
Jonas Salk
Thomas Newcomen
Wright
John Dalton

Let Me Answer

- Who is your favourite scientist and why do you like them?

Info-Bits

A scientist is a person who conducts scientific research to advance knowledge in an area of interest.

TEACHER'S NOTE

Ask children some questions related to science facts. Let them to on research these scientists.

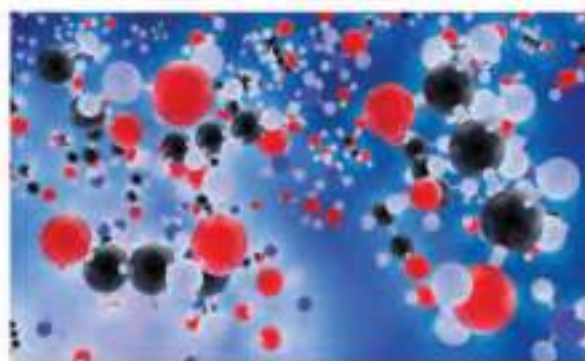
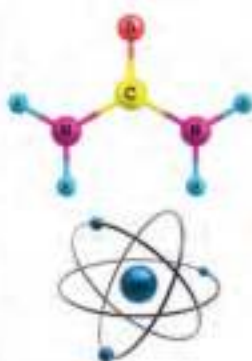


Fill in the blanks with the help of the Help List :

1. A living cell consists of chromosomes, the molecules of which carry
2. Genes are the elements which determine
3. The laws of heredity were formulated by
4. Atoms join together to form
5. An element contains kind of atom.
6. The living liquid in the cell is called
7. Living things are made up of
8. A thing which occupies space and perceive by our senses is called
9. Matter is made up of small
10. The pure forms of matter are and

Let Me Answer

- Have you ever wondered why atoms are important to us?



Help List

Genes
Protoplasm

Atoms
Elements

Molecules
Heredity

Same
Compounds

Cells
G. J. Mendel

Info-Bits

Nikola Tesla (1856-1943 AD), Albert Einstein (1879-1955 AD), and Sir Isaac Newton (1643-1727 AD) are a few legendary scientists.

TEACHER'S NOTE

Motivate children to talk about science and biochemistry with their classmates.

Scientific Instruments and Terms

Instruments used by scientists for different purposes are called scientific instruments. They help us in our day-to-day life.

Write the names of scientific instruments with the help of the Help List:

Instruments

Uses

1. Examines internal parts of the body.
2. Records electric waves of the brain.
3. Compares intensity of colours.
4. Traces movements of the heart.
5. Analyses the sounds of heart and lungs.
6. Records changes in physiological processes, used as lie detector.
7. Uses ultrasound to make ecograms.
8. Measures relative density of milk.
9. Measures the blood pressure.
10. Measures the height of an object above a fixed level.

Let Me Answer

- Have you ever used any scientific instrument?



Help List

Ultrasonoscope, Lactometer, Endoscope, EEG
Altimeter, Colorimeter, Cardiogram
Stethoscope, Sphygmomanometer, Polygraph

Info-Bits

J. Fergason invented the first improved liquid crystal display (LCD).

TEACHER'S NOTE

Engage them in the classroom discussion about scientific terms.



Fill in the blanks with the help of the Help List :

1. The study of fossils is called
2. The study of fruits is called
3. The study of teeth and gums is called
4. The study of human beauty is called
5. The study of environment is called
6. The study of heredity is called
7. The science taking care of health is called
8. Science of health care and treatment of animals is called
9. The science dealing with the effect of radiation on living beings is called
10. The science or study of classification and nomenclature is called

Let Me Answer

- Which scientific term do you use commonly?



Help List

Kalology

Veterinary science

Taxonomy

Ecology

Paleontology

Odontology

Genetics

Pomology

Radiology

Medicine

Info-Bits

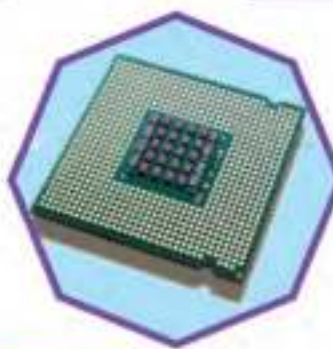
Scientific terminology is the part of the language that is used by scientists in the context of their professional activities.



A.I. (Artificial Intelligence)

Give the full form of the following abbreviations with the help of the Help List :

1. CDMA ☐ _____
2. DOS ☐ _____
3. MPU ☐ _____
4. VDU ☐ _____
5. WWW ☐ _____
6. HTTP ☐ _____
7. BIOS ☐ _____
8. CAD ☐ _____
9. FLOPS ☐ _____
10. UPS ☐ _____



Help List

Hyper Text Transfer Protocol, Computer Aided Design, World Wide Web, Uninterruptible Power Supply, Code Division Multiple Access, Micro Processor Unit, Visual Display Unit, Floating-Point Operations Per Second, Disk Operating System, Basic Input Output System

Let Me Answer

- ★ What do you understand by Artificial Intelligence?
- ★ Which is your favourite A.I. robot?

Info-Bits

LLL stands for Low Level Language.

TEACHER'S NOTE

Make children familiar with artificial intelligence and ask them questions about what we can do with A.I advancement.

Different Faces

Do you like cartoons? Look at the pictures below and identify the different faces and expressions shown in these cartoons.



Draw an angry face.
You can create an angry face by uplifted V-shaped eyebrows.



Draw straight eyebrows for calm expression.



To draw a sad face, draw an A-shaped eyebrow.



To express suspicion, draw A raised eyebrow and a crooked mouth.



Draw O- a shaped mouth and eye eyebrows for a surprised face.



For a scared expression, draw A- shaped eyebrows.



For a happy face, draw a mouth curved and a simple face.

Now try your own combination of different positions of the eyebrows and the mouth on a smiley, to create many different expressions.

Here are some other tricks you can try to get the right expressions on your cartoons.

1. Parts of the face drawn at the bottom of the face make a clever face.
2. A pear-shaped face looks sad.
3. Eyes set far apart express confidence.
4. Eyes set close together express shyness.
5. A star-shaped face can express excessive energy.
6. Parts of the face drawn at the top make it look smug.

Let Me Answer

- Have you ever wondered why a human face expresses uniquely?
- Which human expression do you like the most?

Info-Bits

Our face can make more than 10,000 expressions, many of which trace back to our primitive roots.

TEACHER'S NOTE

Assist students to understand and recognise different human emotions. Also, make them understand the value of these emotions in the life of an individual.

Indian Personalities

Read the clues and complete the cris-cross with the help of the Help List :

Let Me Answer

- Have you ever imagined yourself to be like any of the famous Indian personalities?



CLUES

1. He was Vedantic Scholar and Hindu Missionary.
2. She fought the Revolt of 1857.
3. He threw a bomb in central Legislative Assembly.
4. He organised Azad Hind Fauj.
5. He was the chairman of Drafting Committee of indian Constitution
6. He is nicknamed as 'Tiger of Mysore'.
7. He took control of the mughal empire in 1540.

Help List

Subhash Chandra Bose, Swami Vivekanand, Laxmi Bai, Shersah Suri Ambedkar, Bhagat Singh, Tipu Sultan

Info-Bits

Ganesh Shankar Vidyarthi was the freedom-fighter who sacrificed his life to prevent communal violence in kanpur in 1931.

TEACHER'S NOTE

Engage children in a classroom discussion where they imagine one Indian personality they like the most and explain five qualities that inspired them.



Indian Constitution

Complete the following preamble to the constitution of India with the help of Help List:

WE, _____, having solemnly resolved to constitute India into a _____
_____ and to secure to all its citizens.
_____, social, economic and political.
_____ of thought, expression, belief, faith and worship.
_____ of status and of opportunity.
and to promote among them all _____.
_____ assuring the dignity of the individual and the unity and integrity of the Nation.
IN OUR CONSTITUENT ASSEMBLY this twenty-sixth day of November, 1949,
do
HEREBY _____, _____ AND GIVE TO OURSELVES THIS
CONSTITUTION.

Help List

ADOPT, FRATERNITY, ENACT, EQUALITY, LIBERTY, SOVEREIGN SOCIALIST
SECULAR DEMOCRATIC REPUBLIC, JUSTICE, THE PEOPLE OF INDIA

Let Me Answer

- Have you ever wondered why Indian Constitution was formed?

Info-Bits

Indian constitution was handwritten and calligraphed in both English and Hindi.

TEACHER'S NOTE

Ask children questions about Indian Constitution formation and teach them why a constitution is important for any country.



Complete the following table with the help of the Help List:

PARTY	FOUNDER	SYMBOL
1 BJP	_____	
2 BSP	_____	
3 Congress	_____	
4 Aam Aadmi Party	_____	
5 CPI (M)	_____	
6 Nationalist Congress Party	_____	
7 RJD	_____	

Help List

A.O. Hume, S.P. Mukherjee, M.N. Roy, Arvind kejriwal, kanshiram Sharad Pawar, Lalu Prasad

Let Me Answer

- Why is it important to vote for a party during elections?

Info-Bits

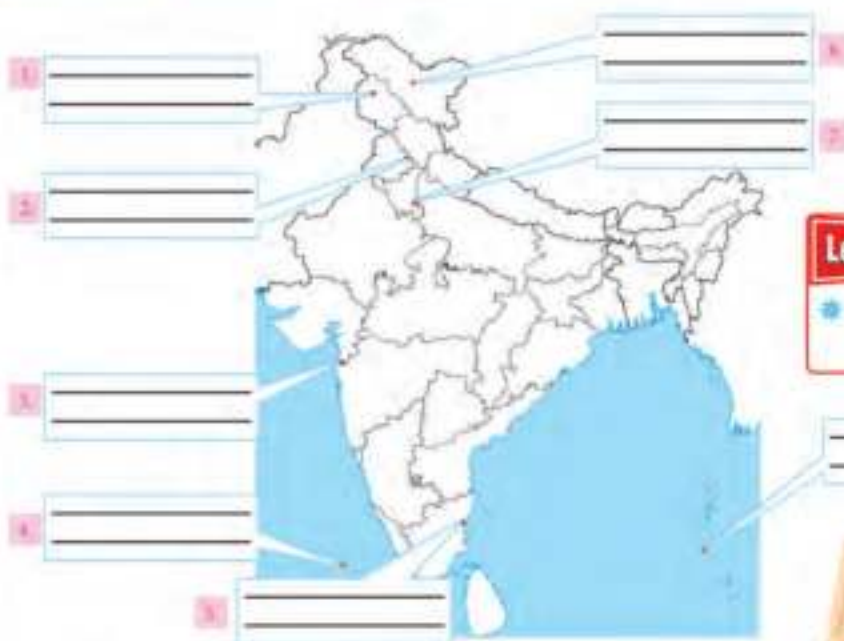
It was a raining cats & dogs outside the Parliament, the day constitution was signed, and this was considered to be a good sign by the assembly members.



Union Territory of India

Using the table fill in the boxes with the union territory and capital:

Union territory	Capital	Area	Date of formation	Principal language
Andman and Nicobar Islands	Port Blair	8,250 sq km.	1 Nov. 1956	Bengali, Hindi, Nicobarese, Tamil, telugu & Malayalam
Chandigarh	Chandigarh	114 sq km.	1 Nov. 1966	Hindi, Punjabi & English
Dadra and Nagar Haveli and Daman & Diu	Daman	603 sq km.	26 Jan. 2020	Gujarati & Hindi
Jammu & Kashmir	Srinagar, Jammu	42,241 sq km.	31 Oct. 2019	Kashmiri, Urdu
Lakshadweep	Kavaratti	32.62 sq km.	1 Nov. 1956	Malayalam
Puducherry	Pondicherry	483 sq km.	1 Nov. 1954	Tamil, Telugu, Malayalam
National Capital	New Delhi	1,484 sq km.	1956	Hindi, English
Ladakh	Leh, kargil	59,146 sq km.	31 Oct.2019	Ladakhi, Tibetan, Urdu



Let Me Answer

Which is the largest union territory of India?

Info-Bits

Lakshadweep is the smallest Union territory.

TEACHER'S NOTE

Discuss different territories and their regions in India. Explain Lakshadweep and Puducherry territory with Indian Map.

Social Work In India

Read the clues below, and name the organisations, projects, or people associates them. Pick the answers from the help list given on the next page.



1. **Save Silent Valley** was a **social movement** started in 1973 by an NGO led by Kerala Sasthra Sahithya Parishad (KSSP) to save the Silent Valley. The movement was against a hydroelectric project. It is located in the sub-tropical forest in the Palakkad district of Kerala, India.
2. **Greta Thunberg** : Greta Tintin Eleonora Ernman Thunberg is a Swedish environmental activist and was born on January 2003. She is known for challenging world leaders to take immediate action for climate change mitigation. Thunberg's activism began when she persuaded her parents to adopt lifestyle choices that reduced their carbon footprint.
3. **World Wildlife Fund** : The World Wide Fund for Nature Inc. is an international non-governmental organization founded in 1961 that works in wilderness preservation and reducing human impact on the environment.

Info-Bits

Amrita Devi of the Bishnoi community, and her daughters sacrificed their lives to protest against the felling of trees in 1730. Their sacrifice inspired the Chipko movement in 1973.

TEACHER'S NOTE

Introduce the chapter with an example of social workers who contributed their life to social improvement. Ask children about any specific social worker and explain why they are inspiring.



4. **Mother Teresa** : Mother Teresa, also known as Saint Teresa of Calcutta, was an Albanian-Indian Roman Catholic nun who in 1950 founded and was an active member of the Missionaries of Charity.

5. **Medha Patkar** : Medha Patkar Khanolkar is an Indian social activist and former Politician. She had worked on various crucial political and economic issues raised by Tribals, Dalits, Farmers, Labourers and Women facing injustice in India.

6. **Wangari Maathai** was a Kenyan social, environmental and political activist and the first African woman to win the Nobel Peace Prize. She went on to become the first woman in East and Central Africa to become a Doctor of Philosophy, receiving her PHD from the University of Nairobi in Kenya.

Help List

Save Silent Valley
Medha Patkar
Greta Thunberg

World Wildlife Fund
Wangari Maathai
Mother Teresa

Let Me Answer

- Which social cause would you like to support and why?

Choose the right option and fill in the Blanks.

Sardar Sarovar Dam, Greta Thunberg, Jane Godall, Ecosystem

1. The international organisation works towards protecting theand habitats on earth.
2.is located on the Narmada River in Gujarat.
3.dedicated her life to researching chimpanzees.
4. is one of the famous Swedish environmental activists.



Important Personalities

Write the names of the eminent persons with the help of the Help List:

FATHER OF
THE NATION

1



IRON MAN
OF INDIA

2



MAN OF PEACE

3



BANGABANDHU

4



LOK NAYAK

5



RAJARSHI

6



AJATSHATRU

7



MISSILE MAN
OF INDIA

8



Let Me Answer

- Have you ever wondered why important personalities of India fought for India?
- Do you also feel inspired to do something for India?

Help List

Dr. Rajendra Prasad, P.D. Tandon, Dr. A.P.J. Abdul Kalam, Jayaprakash Narayan, Mahatma Gandhi, Sheikh Mujibur Rahman, Lal Bahadur Shastri, Vallabhbhai Patel

Info-Bits

Lal Bahadur Shastri was the first person honoured with Bharat Ratna Posthumously.

TEACHER'S NOTE

Encourage children to talk about any three famous personalities and tell about their contributions.



Union of India and National Days

Fill in the blanks with the help of the Help List :

1. is the highest law-making body in India.
2. is the highest law-making body in state.
3. The local body of the village is called
4. The executive powers of the union vest in
5. The executive powers of a state are vested in
6. The head of the Union Cabinet is
7. The head of the State Cabinet is
8. The highest court in India is
9. The highest court in a State is
10. The head of the Supreme Court is



Help List

Chief justice of India, Supreme court,
High court, Chief Minister
Prime Minister, President, Governor,
Parliament, State Legislature, Panchayat

Let Me Answer

- What would you do to improve India's Administration?

Info-Bits

Election Commission is a legal body responsible for the General Elections.

TEACHER'S NOTE

Discuss the functioning of the Union of India and different flag symbols.



There are some national days of the countries.

15 August	-	Independence Day	(India)
4 February	-	Independence Day	(Sri Lanka)
14 July	-	National Days	(France)
1 July	-	Canada Day	(Canada)
26 January	-	Australia Day	(Australia)
1 January	-	Revolution Day	(Cuba)
25 March	-	Independence Day	(Greece)
17 May	-	Constitution Day	(Norway)
27 April	-	Freedom Day	(South Africa)
25 May	-	Revolution Day	(Argentina)
28 May	-	Durg Downfall Day	(Ethiopia)
2 June	-	Republic Day	(Italy)
6 June	-	Flag Day	(Sweden)
10 June	-	Portugal Day	(Portugal)
12 June	-	Russian Day	(Russia)
4 July	-	Independence Day	(USA)
16 December	-	National Day	(Qatar)
2 December	-	Independence Day	(UA Emirates)
1 December	-	Great Union Day	(Romania)
11 November	-	Independence Day	(Poland)
9 November	-	Constitution Day	(Nepal)
26 October	-	National Day	(Austria)
26 January	-	Republic Day	(India)
31 August	-	Independence Day	(Malaysia)
27 April	-	King's Day	(Netherlands)

Info-Bits

22nd April is called the Earth Day.



Land and River Valley



Write the state and the locations of the following with the help of the help list :

State	LOCATION	
		1. The legendary valley of milk and honey. Dalhousie just 5 km away.
		2. India's premier skiing centre, 56 km from Srinagar.
		3. Hindu pilgrimage centre, 11 km from Ajmer.
		4. Named after the famous hunter India's first wildlife park.
		5. City of palaces and gardens, famous for its silk and sandalwood.

Help List

Gulmarg, Jammu and kashmir, Pushkar, Rajasthan, Chamba, Himachal pradesh, Jim Corbett, Uttarakhand, Mysore, Karnataka

Let Me Answer

- Have you ever been go to a National Park?
- How was your experience?

Info-Bits

Dalhousie town is founded by Lord Dalhousie.

TEACHER'S NOTE

Talk about different land and valleys and their respective wild inhabitants with the help of the given exercise.



Name the rivers related to the given projects with the help of the Help List:

1



Nagarjuna Sagar Project
(Andhra Pradesh and Telangana)

2



Kakrapar Project
(Gujarat)

3



Tawa Project
(Madhya Pradesh)

4



Sardar Sarovar Dam
(Gujarat)

Help List

Narmada

Tawa

Tapi

Krishna

Let Me Answer

- Have you ever visited any river valley?
- How can we keep our rivers clean?

Info-Bits

India is trying to join all its rivers for irrigation and power projects.

TEACHER'S NOTE

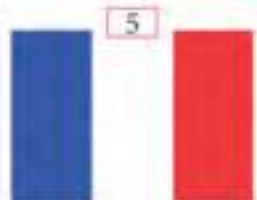
Ask children questions related to eco-friendly ways to clean our rivers and encourage their independent thinking to solve such issues.



Different Flags of Different Countries

Name the countries to which the following flags belong with the help of the Help List :







Let Me Answer

- What is the colour of your country's flag?
- What is the significance of those colours?

Help List

Pakistan, Canada, Soviet Union, India, France, Turkey, Germany, Sri Lanka, South Africa, USA, Nepal, Saudi Arabia

Info-Bits

North America is the third largest continent.

TEACHER'S NOTE

Explain to children about national flags as shown in the pictures. Ask them relatable questions in classroom discussion that helps them to learn flag names and improves their memory.

Music Instruments

Name the musical instruments played by the famous personalities with the help of the Help List:

- | | |
|-----------|------------------------|
| 1. _____ | Pt. Ravi Shankar |
| 2. _____ | Zakir Hussain |
| 3. _____ | Hari Prasad Chaurasia |
| 4. _____ | Ustad Amjad ali Khan |
| 5. _____ | Daya Shankar |
| 6. _____ | Vishnu Gobind Jog |
| 7. _____ | S. Balachander |
| 8. _____ | Pt. Shiv Kumar Sharma |
| 9. _____ | Zubin Mehta |
| 10. _____ | Anayampatti S. Ganesan |
| 11. _____ | Gopal Das |
| 12. _____ | Pandit Randhir Roy |



Help List

Pakhawaj, Esraj, Sitar, Tabla, Flute, Sarod, Shehnai, Violin, Veena, Santoor, Symphony, Jal Tarang

Info-Bits

Ektara is a single stringed musical instrument used in kirtans and by sadhus.

Let Me Answer

- What is your favourite musical instrument?

TEACHER'S NOTE

Engage children in a classroom discussion where they imagine one Indian personality they like the most and explain five qualities that inspired them.

All About India

The President of India is the Head of the State. He is the first citizen of India and the Supreme Commander of the Indian Armed Forces. Identify them and write their names with the help of the Help List.

Let Me Answer

- Have you ever visited a port in India?
- Why these are important for export import?



(1950-1962)



(1962-1967)



(1967-1969)



(1969-1974)



(1974-1977)



(1977-1982)



(1982-1987)



(1987-1992)



(1992-1997)



(1997-2002)



(2002-2007)



(2007-2012)



(2012-2017)



(2017-till date)

Help List

R. Venkataraman, Pratibha Patil, Dr. A.P.J. Abdul Kalam, K.R. Narayanan, Giani Zail Singh, Dr. Zakir Hussain, V.V. Giri, Dr. Rajendra Prasad, Ram Nath Kovind, Dr. Shankar Dayal Sharma, Fakhruddin Ali Ahmed, Neelam Sanjeeva Reddy, Dr. Sarvepalli Radhakrishnan, Pranab Mukherjee

Info-Bits

Rajendra Prasad (born December 3, 1884, Zeradei, India—died February 28, 1963, Patna), Indian politician, lawyer, and journalist who was the first president of the Republic of India.

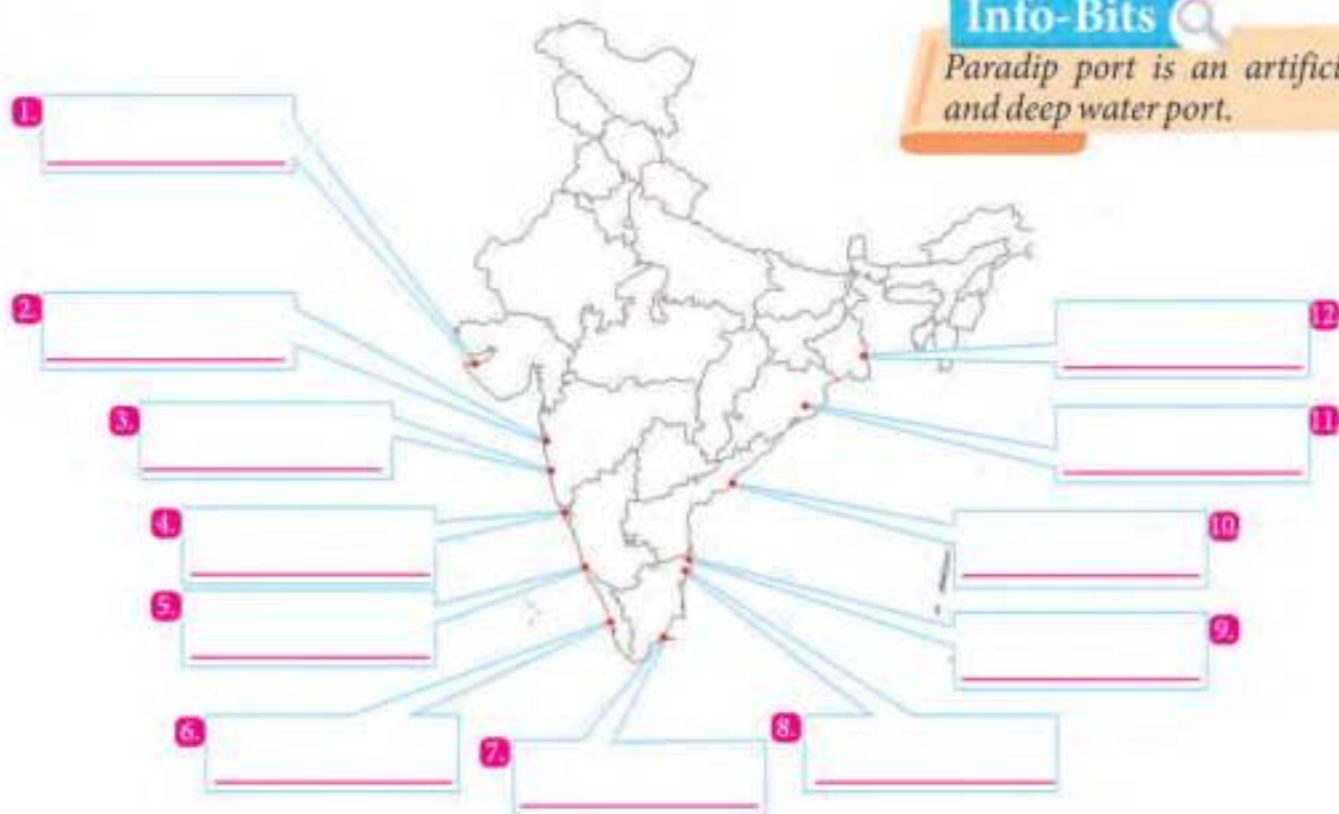
TEACHER'S NOTE

Tell students thirteen major ports in the country that handle a lot of volume of container and cargo traffic. On the west coast, there are the ports of Mumbai, Kandla, Mangalore, JNPT, Mormugao, and Cochin are on the west coast. Ask them questions about the same.



Using the table fill in the boxes with the name of Ports of India.

	Name	State	Cargo Handled		Container Traffic	
			million tonnes	% increase	000 TEUs	% increase
1.	Deendayal Port Trust	Gujarat	110.10	4.42%	117	95.73%
2.	Paradip Port Trust	Odisha	102.01	14.68%	7	71.43%
3.	Jawaharlal Nehru Port Trust	Maharashtra	66.00	6.20%	4,833	6.89%
4.	Visakhapatnam Port Trust	Andhra Pradesh	63.54	4.12%	389	5.66%
5.	Mumbai Port Trust	Maharashtra	62.83	-0.35%	42	-2.38%
6.	Shyama Mukherjee Prasad Port Trust					
7.	Chennai Port Trust	West Bengal	57.89	13.61%	796	3.02%
8.	New Bengaluru Port Trust	Tamil Nadu	51.88	3.32%	1,549	3.49%
9.	Shyama Mukherjee Port Trust	Karnataka	42.06	5.28%	115	17.39%
10.	Kamarajar Port Limited	Tamil Nadu	36.58	-4.91%	698	8.02%
11.	Kochi Port Trust	Tamil Nadu	30.45	1.42%	3	100.00%
12.	Mormugao Port Trust	Kerala	32.02	16.52%	620	11.69%
		Goa	26.90	-18.94%	32	6.25%



Info-Bits

Paradip port is an artificial and deep water port.



Yoga and Good Health



Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus. To prevent infection and to slow transmission of COVID-19, do the following:

Coronavirus Prevention



Wash hands
with soap/
sanitizer



Cover your nose
and mouth
when sneezing



Put tissues
in the
trash bin



Keep
social
distance



Wear
Mask



Don't
Touch
your Face

Symptoms



Fever



Shortness of Breath



Cough



Info-Bits

The virus that causes COVID-19 is in a family of viruses called *Coronaviridae*. Antibiotics do not work against viruses.

Avoid



Avoid contact with
anyone displaying
symptoms or
those in quarantine



Avoid crowded
places and keep
standard 6 feet
of social distance.



Yoga deals with physical, mental and spiritual well-being of human beings. It is the best way to maintain health.

Look at the following **asanas** and write their names:

1



This asana keeps the brain, glands of the brain and glands of the head strong. It brings smoothness to the face.

2



This asana cures digestive disorders. It also makes the abdominal muscles strong.

3



This asana improves the spinal cord. It also improves digestion and arm muscles.

4



This asana destroys poisons in the body. It also keeps the body fit and makes you slim.

5



This asana helps in building the muscles of abdomen and thighs strong.

6



This asana cures the respiratory diseases such as pneumonia and asthma.

Help List

Salabhasana Matsyasana Dhanurasana
Trikonasana Mayurasana Sirasana

Let Me Answer

- What do you do for good health?
- How can we fight against diseases?

Info-Bits

Asana should not be practised in strong winds. Asana should be done with empty stomach.

TEACHER'S NOTE

Tell children about measures that we should take to prevent airborne diseases. Organise a classroom discussion to spread awareness about Yoga health benefits.

The World Of Dance

A. There are many kinds of dances around the world.

Name the following dances with the help of the Help List:

Let Me Answer

Which is your favourite form of dance?

1. A ballroom dance which developed in 18th century.
2. A popular dance of China at new year celebrations.
3. A classical dance of Japan created by Okuni.
4. The traditional mask dance of Thailand.

B. The names of some Indian classical dances are given in two mazes. The first maze contains the first half and second maze contains the rest. Join the two and write them with the help of the help List:



1. _____ + _____ = _____
2. _____ + _____ = _____
3. _____ + _____ = _____
4. _____ + _____ = _____

Help List

- A. Khon, Kabuki, Waltz, Lion Dance
B. Kuchipudi, Bharatnatyam, Kathakali
Mohiniattam

Info-Bits

Lion dance is not the traditional dance of China, but a new year evening dance.

TEACHER'S NOTE

Introduce the chapter by asking questions related to popular dancers and share different styles of dance forms. Encourage children to adopt dancing as a hobby.



India has a number of classical and semi-classical dances. Dance is an art-form. Some people perform this form of art and become noted artists.

Unscramble the words to get names of art-forms to which these artists belong :

DANCE	ARTIST	STATE
MANATYTARABH _____	a. Rukmini Devi b. Balasaraswati	Tamil Nadu
ILAKAHTKA _____	a. Ragini Devi b. Shanta Rao	Kerala
KTHAKA _____	a. Birju Maharaj b. Gopi Krishna	Uttar Pradesh
IRUPIMAN _____	a. Charu Mathur b. Singhajit Singh	Manipur
ATTAMMHOINI _____	a. Bharati Shivaji b. Kanak Rele	Kerala
ISISDO _____	a. Sonal Mansingh b. Sanjukta Panigrahi	Odisha
KPUDICHIU _____	a. Yamini krishnamurthi b. Raja and Radha Reddy	Andhra Pradesh

Info-Bits

Khualam is a group dance performed in colourful dresses to the tune of gongs and drums in Mizoram state.



Modern Author and Books

Name the authors with the help of the Help List :

1. Romancing with Life _____
2. Saurabh Ganguli : The Maharaja of Cricket _____
3. Mohan Das : A True Story of A Man _____
4. Let's Kill Gandhi _____
5. A Call to Honour _____
6. Guiding Souls _____
7. The Longest Race _____
8. God of Small Things _____



Help List

Dev Anand, Arundhati Roy, Ed Ayres,
Dr. Abdul Kalam, Jaswant Singh, Tushar
Gandhi, Raj Mohan Gandhi, Debashish

Let Me Answer

- Who is your favourite author?
- What kind of writing do you like most?

Info-Bits

J.K. Rowling Wrote the bestseller Harry Potter.

TEACHER'S NOTE

Ask children questions related to book authors and what inspires them the most through their writing.



Name the authors of the following books with the help of the Help List :

1. Mahabharata _____
2. Buddha Charitam _____
3. Kadambari _____
4. Sur Sagar _____
5. Bijak _____
6. Kitab-ul-Hind _____
7. Panchatantra _____
8. Arthashastra _____
9. Geet Govind _____
10. Gora _____
11. Politics _____
12. Republic _____



Help List

Surdas, Kabirdas, Al-Biruni, Ved Vyas, Ashwaghosh,
Banabhatta, Pt. Vishnu Sharma, Chanakya, Jayadev, Aristotle,
Plato, Rabindranath Tagore

Indian Women

Complete the statements with the help of the Help List :

- was the first woman President of Indian National Congress.
- was the first woman Ambassador of India in another country.
- is the first woman President of National Stock Exchange.
- is the first Indian woman to climb Mount Everest.
- is the first Indian woman to scale Everest twice.
- is the first Indian woman to be appointed as Civillian Police Advisor at UN.
- is the first woman who became Three-star General Officer of Indian AIR Force.
- is the first woman to swim across seven important seas.
- is the first woman Judge of the Supreme Court of India.



Help List

Bula Chowdhury, Santosh Yadav, M. Fathima Beevi, Sarojini Naidu, Punita Arora, Kiran Bedi, Bachendri Pal, C.B. Muthamma, Deena Mehta

Info-Bits

International Inspirational Women Awards 2023 is an initiative by GISR Foundation that recognizes the potential of women change makers.

Let Me Answer

- Who is the most inspiring woman in your life?
- Why do you admire her?

TEACHER'S NOTE

Ask children about National Activists who were women and fought cultural and religious obligations.



Popular International Women

Name the following personalities with the help of the Help List :

1. The first woman space tourist. _____
2. The first woman President of a country. _____
3. The first woman to reach Antarctica. _____
4. The first woman to reach North Pole. _____
5. The first woman to climb Mount Everest. _____
6. The first woman cosmonaut in space. _____
7. The first woman Prime Minister of a country. _____
8. The first woman Prime Minister of a Muslim country. _____



Help List

Sirimavo Bandaranaike, Valentina Tereshkova, Junko Tabei, Ann Bancroft, C. Mikkelsen, Anousheh Ansari, Vigdis Finnbogadottir, Benazir Bhutto

Let Me Answer

- What, according to you, is an inspiring woman?
- Have you ever heard about Benazir Bhutto?
- Who was she? Explain in your words.

Info-Bits

8th March is called the International Women day.

TEACHER'S NOTE

Discuss with the children about heads of democratic governments in different countries.



All About Sports

Name the sports for which the given terms are associated with the help of the Help List



Let Me Answer

What, according to you is necessary to keep you mentally and physically healthy?



1. Net fault and volley pass
2. Loop and flick
3. Top spin and drop shot
4. Fast break and dribbling
5. Headlock and belly down
6. Knock-in and mallet
7. Offside and penalty
8. Bishop and checkmate
9. Target and bulls eye

Help List

Volleyball, Basketball, Baseball, Croquet, Football, Archery, Hockey, Wrestling, Chess

Info-Bits

USA has so far won 2652 Olympic Medals.

TEACHER'S NOTE

Discuss in the classroom various sports, such as Cricket World Cup on multiple occasions. Field hockey is the most successful sport for India at the Olympic Games.



Name the sport to which these persons belong with the help of the Help List :

1. Ravindra Jadeja

2. Abhinav Bindra

3. Sushil Kumar

4. Vijender Singh

5. K. Malleswari

6. Andre Russel

7. M.S. Dhoni

8. Venus Williams

9. Leander Peas

10. Syed Modi

11. Messi

12. Dhyanchand

13. Ronaldo

14. K.D. Singh Babu

15. Maria Sharapova



Help List

Shooting, Cricket, Hockey, Boxing, Wrestling, Lawn Tennis, Football, Badminton, Weightlifting



Game: Football

A. Complete the following related to football with the help of the Help List:

It is believed that _____ is a British Origin game. The first Football club of the world _____ was founded in the year _____. The apex institution of football is _____. The FIFA headquarters is in _____. It is also called _____. FIFA World Cup is played after every four years. 2018 FIFA World Cup held at _____.

B. Test your knowledge about FIFA World Cup 2018 by completing the following statements with the help of the help box:

- 1 _____ Won after twenty years in world cup.
- 2 France defeated _____ to win FIFA World Cup.
- 3 _____ secured the third place.
- 4 _____ won the Fair play award.
- 5 _____ won the Best young player.



Let Me Answer

- Who is the famous football player that has more than 5 million fans?



Help List

- A. Brazil, 1857, Football, Sheffield, FIFA, Soccer, Zurich (Switzerland)
B. Lennarth Thy, Croatia, France, Belgium, Kylian mbappe

Info-Bits

Football is a family of team sports that involve, to varying degrees, kicking a ball to score a goal. Unqualified, the word football normally means the form.

TEACHER'S NOTE

Ask children questions related to the chapter. Encourage them to participate in sports activities.



Game: Cricket

Complete the following table related to World Cup Cricket with the help of the Help List:

YEAR	VENUE	WINNER
1975	England	_____
1979	England	_____
1983	England	_____
1987	India/Pakistan	_____
1992	Australia	_____
1996	India/Pakistan/Sri Lanka	_____
1999	England	_____
2003	South Africa	_____
2007	West Indies	_____
2011	India/Sri	_____
2015	Lanka/Bangladesh	_____
2019	Australia	_____

Help List

India, England, India, Australia, Australia, Australia, Australia, West Indies, West Indies, Pakistan, Sri Lanka, Australia

Let Me Answer

- Have you ever wished to become a cricketer?
- Who is your favourite cricket player and why?

Info-Bits

Cricket is a sport which is played between two teams of eleven players each. One team, which is batting, tries to score runs, while the other team is fielding and tries to prevent this.

TEACHER'S NOTE

Make two groups in the classroom. One will talk about batting, and the other team will talk about bowling. Let children discuss cricket and how to play it.



Sports World



Name the sports to which the stadium and trophy belong with the help of the Help List:

1. Shivaji Stadium and Begam Rasul Trophy
2. Eden Gardens and Gavaskar-Border Trophy
3. Ambedkar Stadium and DCM Trophy
4. Oval Stadium and World Cup
5. Wimbledon and Wimbledon Cup
6. Hurlingham and International Polo Cup
7. Yankee and Val Baker Trophy
8. Flemington racecourse and Grand National Cup

Help List

Hockey, Cricket, Boxing, Cricket, Polo, Tennis, Horse-racing, Football, Badminton

Let Me Answer

- How do you like to play?
- With a team or individual sports games?

Info-Bits

There are so many sports available in the world nowadays. We can categorize three main types of team sports: individual, dual, and team sports.

TEACHER'S NOTE

Encourage children to be more active in sports games. Ask them which sports activity they wish to organise and be a part of. You can organize that sports game as well.



Top Sports Games

Complete the following with the help of the Help List:

HOCKEY

1. Length x Width of the field - _____
2. Weight of the ball - _____



Let Me Answer

- What are the most common sports games you like to play?

CRICKET

1. Length of the pitch - _____
2. Weight of the ball - _____



FOOTBALL

1. Length x Width - _____
2. Weight of the ball - _____



VOLLEYBALL

1. Length of the court - _____
2. Weight of the ball - _____



Info-Bits

Athletics refers to sports events that test the athlete's endurance, strength, and speed.

Help List

22 yards, 90 m x 45m, 91.4 m x 55 m, 18 m,
155 g to 163 g, 155 g to 163 g, 260 g to 280g, 450g

TEACHER'S NOTE

Check out this comprehensive guide about the many different types of sports, including individual and team sports played worldwide, and explain it to children.



Game Facts

Table tennis was originally known as Ping-pong. Its ball weighs less than 14 gm.



The Olympic motto is Cltius, Altius, Fortius which means Faster, Higher, Stronger.

Lance Armstrong is the only cyclist to have won 7 Tour de France titles from 1999 to 2005. After the first two wins, he was diagnosed with cancer, for which he had to go through surgery and had a less than 50% chance of survival. However, he did overcome cancer and went on to win 5 more titles.



The grand slam consists of four tournaments in the tennis world. These are : Australian Open, US Open, French Open and Wimbledon.



Pachisi is an ancient game still played in India. The boards are usually made of embroidered cloth. There are 4 counters for each player. Cowrie shells are used as dice. Ludo is quite like Pachisi.



In the game of Snooker there are 22 cue balls. 15 of those are red, 6 are of the other colours and 1 is white.

American gymnast George Eyser won the rope climbing, parallel bar, and long horse gymnastic events at the 1904 Olympics, despite having a wooden leg.



Info-Bits

Electronic game involves interaction with a user interface or input devices – such as a joystick, controller, keyboard, or motion sensing device – to generate visual feedback.

Let Me Answer

- Do you play outdoor games or indoor games?
- Which is your favourite electronic game?

TEACHER'S NOTE

Help students to talk about different sports fact in the world. Explain to the children different types of games.



Popular International Games



Kho-kho : India's first ever interplanetary mission was launched on 5 November 2013 and 24 September 2019, completed 5 years in orbit around Mars, sent 2 terabytes of imaging data, and had enough fuel to complete another year in orbit.



Polo : Polo is a horseback ball game, a traditional field sport and one of the world's oldest known team sports. The objective of scoring is using a long-handled wooden mallet to hit a small hard ball through the opposing team's goal.

Muay Thai : Muay Thai boxing is a combat sport that uses stand-up striking and various clinching techniques.



Sumo : Sumo is a form of competitive full-contact wrestling where a rikishi attempts to force his opponent out of a circular ring or into touching the ground with any body part other than the soles of his feet.

Taekwondo : Taekwondo, Tae Kwon Do or Taekwon-Do, is a Korean form of martial arts characterized by punching and kicking techniques, with emphasis on head-height kicks, spinning jump kicks, and fast kicking techniques.



TEACHER'S NOTE

Engage children in general activity and ask them questions about how to be healthy and physically fit through activities and games.



Croquet : Croquet is a sport that involves hitting wooden or plastic balls with a mallet through hoops embedded in a grass playing court. Two, four or six players can play croquet. The object of the game is to hit your ball(s).

Chaturanga : Chaturanga is an ancient Indian strategy game. While there is some uncertainty, the prevailing view among chess historians is that it is the common ancestor of the board games chess, xiangqi, janggi, shogi, sittuyin, makruk, and modern Indian chess.



Info-Bits

2013 research shows that games can increase learning outcomes by two grade levels. A study on motivation shows that outcomes are improved by two standard deviations when kids play together.

Let Me Answer

- Have you ever tried learning Taekwondo?
- Which is your favourite sport?

Quiz Time

1. Which game focuses on head-height kicks?
2. Sumo is a form of what kind of competitive wrestling?
3. Why Polo is a horseback ball game?
4. Which is the second most popular game in India?

Fill in the blanks.

1. Fighting sport in which fighters use their fists, elbows, feet and knees to strike each other is called.....
2.is a game where you hit wooden or plastic balls with a wooden hammer through a set of rings that are fixed to the ground.
3. A board game that was played in ancient India is known as.....
4.is practised mainly for sport and

Help List

Chess
Kho Kho

Muay Thai
Spiritual

Croquet
Development



Food Pyramid Activity

In the boxes provided, write down the names of the nutrients each food group provides.

Let Me Answer

- What kind of food would you like to eat more?

1.

2.

3.

4.

Help List

proteins carbohydrates fats vitamins

TEACHER'S NOTE

Inform students about the importance of different nutrients that are found in food. Ask students about the different nutritious values of food.



Health Facts

1



Jogging/running is the best exercise; this helps you to grow well and stay healthy.



2



Green vegetable are good for health; they provide vitamins needed to stay healthy.



3



Protein-rich foods such as egg, meat, fish, soyabean are important; these help in building a healthy body.



4



Drink plenty of clean water everyday; water helps in digestion and is good for the skin.



5



Apply petroleum jelly or cream during winter; this prevents chaffing of the skin.



6



use talcum powder during summer; this prevents itching from sweat.



Info-Bits

There are five main aspects of personal health: physical, emotional, social, spiritual, and intellectual.

Let Me Answer

- What are the best ways to keep your mind and emotions balanced?

TEACHER'S NOTE

Tell children more about physical and emotional good health and also teach them a few ways to make changes in their daily routine.

Matching Pair

Objective

A good way to figure out the relationship in a given question is to make up a use the same sentence to find out which of the answer choices completes the same relationship with the third word.

Example 1

Odometer is to mileage as compass is to

- A. speed B. hiking C. needle D. direction

Answer: (D)

Explanation:

An odometer is an instrument used to measure mileage. A compass is an instrument used to determine direction. Choices a, b and c are incorrect because none is an instrument.

Example 2

Marathon is to race as hibernation is to

- A. winter B. bear C. dream D. sleep

Answer: (D)

Explanation:

A marathon is a long race and hibernation is a lengthy period of sleep. The answer is not choice a or b because even though a bear in winter are related to hibernation, neither completes the analogy. (Choice c) is incorrect because sleep and dream are not synonymous.

Let Me Answer

- Where does the bear live?
- What is your biggest dream?

TEACHER'S NOTE

Assist students to complete the given exercise. Also, motivate them to understand the relation between different objects.



Time To Do

1. Window is to pane as book is to
A. novel B. glass C. cover D. page
2. Cup is to coffee as bowl is to
A. dish B. soup C. spoon D. food
3. Yard is to inch as quart is to
A. gallon B. ounce C. milk D. liquid
4. Elated is to despondent as enlightened is to
A. aware B. ignorant C. miserable D. tolerant
5. Optimist is to cheerful as pessimist is to
A. gloomy B. mean C. petty D. helpful
6. Reptile is to lizard as flower is to
A. petal B. stem C. daisy D. alligator
7. Play is to actor as concert is to
A. symphony B. musician C. piano D. percussion
8. Sponge is to porous as rubber is to
A. massive B. solid C. elastic D. inflexible
9. Pride is to lion as shoal is to
A. teacher B. student C. self-respect D. fish
10. Artist is to painting as senator is to
A. attorney B. law C. politician D. constituents

Series

Objective

In each series, look for the degree and direction of change between the numbers. In other words, do the numbers increase or decrease, and by how much.

Example 1

Look at this series: 2, 1, $\frac{1}{2}$, $\frac{1}{4}$, ... What number should come next?

- A. $\frac{1}{3}$ B. $\frac{1}{8}$ C. $\frac{2}{8}$ D. $\frac{1}{16}$

Answer: (B)

Explanation:

This is a simple division series; each number is one-half of the previous number.

In other term to say, the number is divided by 2 successively to get the next result.

Example 2

Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

- A. 7 B. 10 C. 12 D. 13

Answer: (B)

Explanation:

This is a simple alternating addition and subtraction series.

In the first pattern, 3 is added in the second, 2 is subtracted.

Let Me Answer

- What would come at the end of 2, 4, 8, 16, __, __?

TEACHER'S NOTE

Series is a pattern used in alphabets members and any figure. Guide learners to complete the given exercises.



Time To Do

1. Look at this series: 36, 34, 30, 28, 24, ... What number should come next?
A. 20 B. 22 C. 23 D. 26
2. Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?
A. 22 B. 24 C. 25 D. 26
3. Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?
A. 12 B. 14 C. 27 D. 53
4. Look at this series: 21, 9, 21, 11, 21, 13, 21, ... What number should come next?
A. 14 B. 15 C. 21 D. 23
5. Look at this series: 58, 52, 46, 40, 34, ... What number should come next?
A. 26 B. 28 C. 30 D. 32
6. Look at this series: 3, 4, 7, 8, 11, 12, ... What number should come next?
A. 7 B. 10 C. 14 D. 15
7. Look at this series: 8, 22, 8, 28, 8, ... What number should come next?
A. 9 B. 29 C. 32 D. 34
8. Look at this series: 31, 29, 24, 22, 17, ... What number should come next?
A. 15 B. 14 C. 13 D. 12
9. Look at this series: 80, 10, 70, 15, 60, ... What number should come next?
A. 20 B. 25 C. 30 D. 50
10. Look at this series: 2, 6, 18, 54, ... What number should come next?
A. 109 B. 121 C. 162 D. 216
11. Look at this series: 5, 6, 9, 23, 87, ... What number should come next?
A. 429 B. 324 C. 226 D. 128
12. Look at this series: 201, 202, 204, 207, ... What number should come next?
A. 205 B. 211 C. 208 D. 101



13. What number should come next?

X W U T R Q ?

- A. L B. P C. O D. M

14. What alphabet should come next?

S E U H W K ?

- A. N B. Z C. Y D. O

15. Find the missing pair of letters in the series.

EN FN GM HM ?

- A. LI B. IL C. LJ D. KM

16. What alphabet should come next?

N O K L H ?

- A. E B. F C. D D. I

17. Find the missing pair of letters in the series.

FC HG JK LO NS ?

- A. PW B. WP C. QX D. XQ

18. Find the missing pair of letters in the series.

CF IL OR ?

- A. US B. UX C. ST D. SU

19. Find the missing pair of letters in the series.

AZ DX GV JT MR ?

- A. OR B. OO C. PP D. RR

Let Me Answer

- What would come at the end of AZ, BY, CX, DW, ___?

Ranking Test

Objective

This chapter deals with finding position. The questions generally contain total number or persons and rank of a person from his left or right is given. A student is required to find out the rank of person from the other direction.

Example 1

In a row of boy, If A who is 10th from the left and B who is 9th from the right interchange their positions, A becomes 15 from the left. How many boys are there in the row?

- A. 23 B. 31 C. 27 D. 28

Answer: (23)

Explanation:

Clearly, A's new position is 15th from the left. But this is the same as B's earlier position which is 9th from the right.

Let Me Answer

- What is your rank in the row in which you are sitting?

Example 2

How many 4's are there preceded by 7 but not followed by 3?

5 9 3 2 1 7 4 2 6 9 7 6 1 3 2 8
7 4 1 3 8 3 2 5 6 7 4 3 9 5 8 2
0 1 8 7 4 6 3

- A. Four B. Three C. Six D. Five

Answer: (A)

Explanation:

7 4 2 7 4 1
7 4 1 7 4 6

Only at these places 4 is preceded by 7 but not followed by 3.

TEACHER'S NOTE

With the aid of the examples help the students in finding out the rank of person in a row. Clear their concepts by giving them examples in the clear.



Time To Do

1. Nitin ranks 18th in a class of 49 students. What is rank from the last?
A. 31 B. 18 C. 32 D. 19
2. A class of boys stands in a single line, one boy is 19th in order from both the ends, How many boys are there in the class?
A. 37 B. 39 C. 27 D. 38
3. Three persons A, B and C are standing in a queue. There are five persons between A and B and eight persons between B and C. If there be three persons ahead of C and 21 persons behind A, what could be the minium number of persons in the queue?
A. 41 B. 40 C. 28 D. 27
4. Sam ranked 9th from the top and 38th from the bottom in a class. How many students are there in the class?
A. 45 B. 47 C. 46 D. 48
5. In a class of 180, where girls are twice the number of boys, Rupesh [a boy] ranked 34th from the top. If there are 18 girls ahead of Rupesh, how many boys are after him in rank?
A. 45 B. 44 C. 60 D. can't be determined
6. Rajan is sixth from the left end and vinay is tenth from the right end in a row of boys. If there are eight boys between Rajan and Vinay, how many boys are there in the row?
A. 24 B. 26 C. 23 D. 25
7. In a class of 50 students M is eighth from the top. H is 20th from the bottom. How many students are there between M and H?
A. 22 B. 23 C. 24 D. can't be determined
8. How many such digits are there in the number 7346285 which are as far away from the beginning of the number, as they will be when arranged in ascending order within the number?
A. None B. One C. Two D. Three



9. In a row of thirty boys, R is fourth from the right end and W is tenth from the left end. How many boys are there between R and W?
A. 15 B. 16 C. 17 D. can't be determined
10. Which of the following is fifth to the right of the twelfth digit from the right end of the below arrangement?
1 8 5 9 4 7 1 2 5 8 3 6 5 9 2 7 6
4 5 2 9 2 6 4 1 2 3 5 1 4 2 8 3
A. 3 B. 1 C. 2 D. 7
11. In a row of boys, If A who is 10th from the left and B who is 9th from the right interchange their positions, A becomes 15th from the left. How many boys are there in the row?
A. 23 B. 31 C. 27 D. 28
12. Ayush ranks 16th in a class of 50 students. What is rank from the last?
A. 35 B. 19 C. 29 D. 34
13. Imran ranks eighteenth in a class of 49 students. What is his rank from the last?
A. 12 B. 13 C. 14 D. 32
14. In a row of 40 girls, when Husna was shifted to her left by 4 places her number from the left end of the row became 10. What was the number of Naheed from the right end of the row if Naheed was three places to the right of Husna's original position?
A. 24 B. 25 C. 27 D. 26
15. Furqan ranked ninth from the top and thirty-eighth from the bottom in a class. How many students are there in the class?
A. 45 B. 46 C. 47 D. 48
16. In a queue, A is eighteenth from the front while B is sixteenth from the back. If C is twenty fifth from the front and is exactly in the middle of A and B, then how many persons are there in the queue?
A. 45 B. 46 C. 47 D. 48
16. Naveen is 8 ranks ahead of Divya who ranks twenty-sixth in a class of 42. What is Naveen's rank from the last?
A. 9 B. 24 C. 25 D. 34

Analogy

Objective

Analogy means similarity. In this chapter, two objects related in some way are given and third object is also given with four or five alternatives students have to find out which one of the alternatives bears the same relation with the third objects as first and second objects are related.

Example 1

Curd : Milk :: Shoe : ?

A. Leather

B. Cloth

C. Jute

D. Silver

Answer: (A)

Explanation:

As curd is made from milk similarly shoe is made from leather.

Example 2

Calf : Piglet :: Shed : ?

A. Prison

B. Nest

C. Pigsty

D. Den

Answer: (C)

Explanation:

Calf is young one of the cow and piglet is the young of Pig. Shed is the dwelling place of Similarly Pigsty is the dwelling place of pig.

Let Me Answer

- If chair is related to wood, then how woollen clothes are related? Name the thing.

TEACHER'S NOTE

With the help of the examples and exercise explain the importance of analogy. Ask the students to give similar types of relations in different things.



Time To Do

1. ABC : ZYX :: CBA : ?
A. XYZ
B. BCA
C. YZX
D. ZXY
2. Malaria : Mosquito :: ? : ?
A. Poison : Death
B. Cholera : Water
C. Rat : Plague
D. Medicine : Disease
3. CUP : LIP :: BIRD : ?
A. Bush
B. Grass
C. Forest
D. Beak
4. Flow : River :: Stagnant : ?
A. Rain
B. Stream
C. Pool
D. Canal
5. Paw : Cat :: Hoof : ?
A. Lamb
B. Elephant
C. Lion
D. Horse
6. Ornithologist : Bird :: Archealogist : ?
A. Islands
B. Mediators
C. Archaeology
D. Aquatic
7. Peacock : India :: Bear : ?
A. Australia
B. America
C. Russia
D. England
8. REASON : SFBTPO :: THINK : ?
A. SGHMI
B. UIJOL
C. UHNKI
D. UJKPM



9. Carbon : Diamond :: Corundum : ?
A. Garnet
B. Ruby
C. Pukhraj
D. Pearl
10. NATION : ANTINO :: HUNGRY : ?
A. HNUGRY
B. UHNGYR
C. YRNGUH
D. UNHGYR
11. Race : Fatigue :: Fast : ?
A. Food
B. Laziness
C. Hunger
D. Race
12. Peace : Chaos :: Creation : ?
A. Build
B. Construction
C. Destruction
D. Manufacture
13. Eye : Myopia :: Teeth : ?
A. Pyorrhoea
B. Cataract
C. Trachoma
D. Eczema
14. Conference : Chairman :: Newspaper : ?
A. Reporter
B. Distributor
C. Printer
D. Editor
15. Safe : Secure :: Protect : ?
A. Lock
B. Sure
C. Guard
D. Conserve
16. Melt : Liquid :: Freeze : ?
A. Ice
B. Condense
C. Solid
D. Force



TEST PAPER-1

A. Answer the following short questions.

1. Which plant loves beautiful melodies and is known for the movement of its leaves.
2. This aquatic animal has oily flesh and flexible, leather-like skin for which it is named .
3. This plant gives relief from cough and chronic bronchitis and asthma.
4. They are made from a tube - like hole in the Earth's surface that runs deep into the crust.
5. Which was india's first ever interplanetary mission launched 5 November 2013 and 24 September 2019.

B. Answer the following long questions.

1. Brief about metals and their properties in your own words.
2. Explain the importance of gadgets in our daily life.
3. Explain the role of a producer in your own words.
4. Write any 5 benefits of having healthy diet.
5. What is polio? Write a short note.

C. Fill in the blanks.

1. Genes are the element which determines.....
2.records changes in physiological processes, used as lie detector.
3.dedicated her life to researching chimpanzees .
4. The highest court in India is
5. Mahabharata was written by.....

D. Tick (✓) in the correct options.

- | | |
|--|-------|
| 1. A President is the first citizen of india . | () |
| 2. Violin is played by Pt. Shiv Kumar Sharma. | () |
| 3. 25 march is the independence day of USA. | () |
| 4. Dr. A.P.J. Abdul kalam is known as the missile man of india . | () |
| 5. Lotus is the symbol of Bhartiya janta party (BJP). | () |

E. State (T) for true and (F) for False

1. Indian constitution is the largest constitution in the world.
2. Dr. Subhash chandra bose was the chairman of Drafting Committee of Indian Constitution.
3. WWW stands for World Wide Web.
4. Stethoscope traces the movements of the heart.
5. A cinematographer takes charge of how actors will look in their films.

TEST PAPER-2



A. Answer the following short questions.

1. She was the first female prime minister of india.
2. Name the classical dance of japan created by Okuni .
3. Sur sagar was written by ?
4. Who was the first indian woman to scale everest twice ?
5. Who was the first woman to reach the north pole ?

B. Answer the following long questions.

1. Brief the importance of sports in our life in your own words.
2. Write a short note on your favourite sport of all time.
3. Write a short note on the importance of different nutrients that are found in food .
4. Brief about the National game of India in your own words.
5. What do you know about the Mahabharata , brief in your own words.

C. Fill in the blanks.

1. is the first woman to swim across the seven important seas.
2. was the first woman prime minister of a muslim country.
3. In the game of there are 22 cue balls.
4. is practised mainly for sport and
5. Let's kill gandhi as written by

D. Tick (✓) in the correct options

- | | |
|---|-----|
| 1. Kiran Bedi is the first woman judge of the Supreme Court of India. | () |
| 2. Fast break and Dribbling is associated with football. | () |
| 3. Ronaldo is a popular football player. | () |
| 4. Yankee and Val Baker Trophy belongs to badminton. | () |
| 5. Tennis was originally known as ping pong. | () |

E. State (T) for true and (F) for False.

1. Lance Amstrong is the only cyclist to have won 7 Tour de France titles from 1999 to 2005 .
2. The first woman to reach Antarctica was Junko Tabei .
3. Sarojini Naidu was the first indian woman President of Indian National Congress.
4. MS Dhoni is an Indian football player .
5. Pachisi is an Indian game similar to ludo .



Answers

- Ch-01. 1. Stem 2. Stomato 3. Roots 4. Seeds 5. Fruit
- Ch-02. i. 1. Wholly covered in scales 2. Sea reptiles (turtles), sharks 3. The beaver 4. Grasshoppers and cockroaches
ii. 1. Taxes blind salamanders 2. Cleaner wrasse 3. South america 4. Leather turtles
- Ch-03. i. 1. Neem 2. Cassia sophera 3. Cinchona 4. Ginseng 5. Foxglove 6. poppy 7. Eucalyptus 8. Cocoa
ii. Non-renewable
Mineral resource - Fuel, Metallic, Non-metallic
Inexhaustible - Wind, sunlight, water
Exhaustible - Coal, Natural gas
- Ch-04. i. 1. Geyser 2. canyon 3. Rapids 4. Glacier 5. Valley
- Ch-05. i. 1. Nail Armstrong 2. Sputnik 1 3. Commander Rick Husband 4. Sirisha Bandla
ii. 1. Astronaut and aeronautical 2. Eleventh 3. International space station 4. Sputnik 1 5. 5 November 2013
- Ch-06. i. 1. Granite 2. Limestone, sedimentary rock 3. Volcano 4. Graphite
ii. 1. Copper 2. Iron 3. Tin 4. Gold 5. Silver
- Ch-07. 1. Hans 2. Galileo Galilei 3. Charles Babbage 4. Ada Lovelace 5. ENIAC (1945)
6. Altair 7. 5, November 2013
- Ch-08. i. 1. 1954 2. Jamie Fox 3. Hellaro 4. Shershaah
ii. 1. Cinematographer 2. Production industry 3. Creativity, costume designer
- Ch-09. 1. Stone 2. Metanil yellow 3. Lead chromate powder 4. Cow dung 5. Papaya seed 6. Brick powder
7. Argemon oil 8. Water 9. Sand 10. Vanaspati
- Ch-10. i. 1. Issac Newton 2. C.V Raman 3. A. Nobel 4. F. sanger 5. John Dalton 6. Ramsay
7. Thoma Newcomen 8. Wright 9. Roentgen 10. Jonas salk
ii. 1. Genes 2. Heredity 3. G.J. Mendel 4. Molecule 5. Same 6. Protoplasm 7. Cells
8. Matter 9. Atoms 10. Elements and compounds
- Ch-11. i. 1. Endoscope 2. EEG 3. Colorimeter 4. Ultrasonoscope 5. Stethoscope 6. Polygraph
7. Cardlogram 8. Lactometer 9. Sphygmomanometer 10. Altimeter
ii. 1. Paleontology 2. Pomology 3. Odontology 4. Kalology 5. Ecology 6. Genetics
7. Medicine 8. Veterinary science 9. Radiology 10. Texonomy
- Ch-12. 1. Code division 2. Disk operating system 3. Micro processor 4. Visual Display Unit 5. World wide web
6. Hyper Text Transfer protocol 7. basic Input Output System 8. Computer Aided Design
9. Floating-Point Operations per second 10. Uninterruptible Power Supply
- Ch-13. , Do it yourself
- Ch-14. 1. Swami Vivekanand 2. Laxmi Bai 3. Bhagat Singh 4. Subhash Chandra Bose 5. Dr. B.R Ambedkar
6. Tipu Sultan 7. Shershaah Suri
- Ch-15. i. 1. The people of India 2. Sovereign, Socialist, Secular, Democratic, Republic 3. Justice 4. Liberty
5. Equality 6. Fraternity 7. Adopt, enact
ii. 1. S.P. Mukherjee 2. Kanshiram 3. A.O. Hume 4. Arvind Kejriwal 5. M.N. Roy
6. Sharad Pawar 7. Lalu Prasad
- Ch-16. 1. Jammu & Kashmir, Srinagar 2. Chandigarh, Chandigarh 3. Dadra and Nagar Haveli and Daman & Diu
4. Lakshadweep, Kavaratti 5. Puducherry, Pondicherry 6. Andaman and Nicobar Islands
7. National Capital, New Delhi 8. Ladakh, Leh
- Ch-17. i. 1. Save Silent Valley 2. Greta Thunberg 3. World wild life 4. Mother Teresa 5. Medha Patkar
6. Wangari Maathai
ii. 1. Ecosystem 2. Sardar Sarovar dam 3. Jane Goodall 4. Greta Thunberg
- Ch-18. 1. Mahatma Gandhi 2. Vallabhbhai Patel 3. Lal Bahadur Shastri 4. Sheikh Mujibur Rahman
5. Jai Prakash Narayan 6. P.D. Tandon 7. Dr. Rajendra Prasad 8. Dr. APJ Abdul Kalam
- Ch-19. 1. Parliament 2. State Legislative 3. Panchayat 4. President 5. Governor
6. Prime Minister 7. Chief Minister 8. Supreme Court 9. High Court 10. Chief Justice in India
- Ch-20. i. 1. Chamba, Himachal 2. Jammu & Kashmir, Gulmarg 3. Rajasthan, Pushkar 4. Uttarakhand, Jim Corbett
5. Karnataka, Mysore
ii. 1. Krishna 2. Tapi 3. Tawa 4. Narmada
- Ch-21. 1. USA 2. South Africa 3. Nepal 4. Canada 5. France 6. Germany 7. India
8. Saudi Arabia 9. Turkey 10. Sri Lanka 11. Soviet Union 12. Pakistan



- Ch-22. 1. Sitar 2. Tabla 3. Flute 4. Sarod 5. Shehnai 6. Violin 7. Veena 8. Santoor
9. Symphony 10. Jal Tarang 11. Pakhawaj 12. Esraj
- Ch-23. i. 1. Rajendra Prasad 2. Dr. Sarvepalli Radhakrishnan 3. Dr. Zakir Hussain 4. V.V. Giri 5. Fakhruddin Ali Ahmed
6. Neelam Sanjeeva Reddy 7. Giani Zail Singh 8. R. Venkataraman 9. Dr. Shankar Dayal Sharma
10. K.R. Bengaluru 11. Dr. APJ Abdul Kalam 12. Pratibha Patel 13. Pranav Mukherjee 14. Ram Nath Kovind
- ii. 1. Deendayal Port Trust 2. Mumbai Port Trust 3. Jawaharlal Port Trust 4. Mormugo Port Trust
5. New Mangalore Port Trust 6. Kochi Port Trust 7. Tuticorin Port Trust 8. Chennai Port Trust
9. Kamarajar Port Trust 10. Visakhapatnam Port Trust 11. Paradip Port Trust 12. Haldia Port Trust
- Ch-24. 1. Sirasana 2. Dhanurasana 3. Trikonasana 4. Mayurasana 5. Salabhasana 6. Matsyasana
- Ch-25. i. 1. Waltz 2. Lion dance 3. Kabuki 4. Khon
ii. 1. Bharat + natyam = Bharatnatyam 2. Mohini + Attam = Mohiniattam 3. Katha + Kali = Kathakali
4. Kuchi + Pudi = Kuchipudi
iii. 1. Bharatnatyam 2. Kathakali 3. Kathak 4. Manipuri 5. Mohiniattam 6. Odissi 7. Kuchipudi
- Ch-26. i. 1. Devanand 2. Debashish 3. Rajmohan Gandhi 4. Tushar Gandhi 5. Jaswant Singh 6. Dr. Abdul Kalam
7. Ed Ayres 8. Arundhati Roy
ii. 1. Ved Vyasa 2. Ashwaghosh 3. Banabhatta 4. Surdas 5. Kabirdas 6. Al Biruni
7. Pt. Vishnu Sharma 8. Chanakya 9. Jayadev 10. Rabindranath Tagore 11. Aristotle 12. Plato
- Ch-27. 1. Sarojini Naidu 2. C.B. Muthamma 3. Deena Mehta 4. Bachendri Pal 5. Santosh Yadav
6. Kiran Bedi 7. Punita Arora 8. Bala Chowdhury 9. M. Fatima Beevi
- Ch-28. 1. Anousheh Ansari 2. Vigdis Finnbogadóttir 3. C. Mikkelsen 4. Ann Bancroft 5. Junko Tabei
6. Valentina Tereshkova 7. Sirimavo Bandaranaike 8. Benazir Bhutto
- Ch-29. i. 1. Volleyball 2. Hockey 3. Baseball 4. Basketball 5. Wrestling 6. Croquet 7. Football
8. Chess 9. Archery
ii. 1. Cricket 2. Shooting 3. Wrestling 4. Boxing 5. Weightlifting 6. Cricket 7. Cricket
8. Tennis 9. Tennis 10. Badminton 11. Football 12. Hockey 13. Football 14. Hockey
15. Tennis
- Ch-30. i. 1. Football 2. Sheffield 3. 1857 4. FIFA 5. Zurich (Switzerland) 6. Soccer 7. Brazil
ii. 1. France 2. Croatia 3. Belgium 4. Lennarth Thy 5. Kylian Mbappe
- Ch-31. 1. West Indies 2. West Indies 3. India 4. Australia 5. Pakistan 6. Sri Lanka 7. Australia
8. Australia 9. Australia 10. India 11. Australia 12. England
- Ch-32. 1. Hockey 2. Cricket 3. Football 4. Cricket 5. Tennis 6. Polo 7. Boxing 8. Horse racing
- Ch-33. 1. Hockey = (a) 91.4 m X 55m, (b) 155g- 163g 2. Cricket - (a) 22 yards, (b) 155g- 163g 3. Football - (a) 90m X 45m,
(b) 450 g 4. Volleyball - (a) 18m, (b) 260g- 280g
- Ch-35. i. 1. Taekwondo 2. Full contact 3. 4. Badminton
ii. 1. Muay Thai 2. Croquet 3. Chess 4. Khokho, development, spiritual
- Ch-36. 1. Fats 2. Protein 3. Vitamins 4. Carbohydrates

Time to do (page no- 63)

1. D 2. B 3. B 4. B 5. A 6. C 7. B 8. B 9. D 10. B

Time to do (page no- 65)

1. B 2. C 3. B 4. B 5. B 6. D 7. D 8. A 9. A 10. C 11. A 12. B 13. C
14. B 15. B 16. D 17. A 18. B 19. C

Time to do (page no- 68)

1. A 2. A 3. B 4. B 5. D 6. A 7. A 8. C 9. B 10. A 11. A 12. D 13. D
14. A 15. B 16. C 17. A

Time to do (page no- 71)

1. A 2. B 3. D 4. C 5. D 6. C 7. C 8. B 9. B 10. B 11. C 12. C 13. A
14. D 15. C 16. C