



Home Assignment – May 31, 2020
Class VIII

English

- Q.1** A limerick is a humorous poem of five lines with a rhyme scheme *aabba*.
What is a limerick, mother? A
It's a form of verse said brother A
In which line one and two B
Rhyme with five when it's through B
And three and four rhyme with each other. A

Write a limerick on the following topics:

- Your best friend
- Your real/ imaginary pet

- Q.2** Imagine yourself standing in front of the mirror. What if the mirror started talking to you? What might it say to you? Write five sets of dialogues between you and the mirror.
- Q.3** Students have mixed views about the importance of studying History. While some feel that they have a lot to learn from it, others feel that it makes no sense to delve into the past. Put forth your views either for or against the topic: 'History is an Important Tool for Planning the Future'. Remember, in order to draft a convincing debate, a thorough research and an impressive expression truly help. Share your thoughts in about 150-170 words.
- Q.4** Read the story 'The Last Leaf' by O. Henry from your literature reader and make cartoon quips to narrate the story. Try and be as creative as you can.
- Q.5** All of us make errors while writing or speaking English. The following paragraph has several errors. Read the paragraph carefully and rewrite it correctly. Do not copy the incorrect paragraph.

Sujata Ashtekar and Vatsala Trivedi are two woman with a mission. They spend there time and energy popularizing organ donation in Mumbai. Ashtekar and Trivedi are volunteers at the Zonal Transplant Coordination Committee that coordinates, monitor and supervises the cadaver organ transplant programme through Mumbai. Both Trivedi and Ashtekar come with the medical sector. Trivedi, 60, retired as the Head of Department of Urology and Transplant of Sion hospital. During her career that spanned over 20 years she realized a importance of transplants. She also performed Mumbai's first kidney transplant in 21 March, 1997. Ashtekar is a Master in Social Sciences from TISS. She learnt the basic of organ transplant after a stint at Jaslok hospital. Together they formed the ZTCC (Zonal Transplant Coordination Committee) with likeminded people on December 2000.

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हिंदी

प्रश्न-1- निम्नलिखित काव्य- पंक्तियों को पढ़कर पूछे गए प्रश्नों के उत्तर लिखिए ;

आदमी ने एक बनवाया था महल शानदार ।
काँच अंदर की तरफ़ उसमें जड़े थे बेशुमार।।
एक कुत्ता था फँसा, उसमें अचानक एक बार।
देखते ही सैकड़ों कुत्ते हुआ वह बेकरार।।
वह समझता था, उसे वे घूरते हैं घेरकर।
क्योंकि सतत खुद था देखता आँखें तरेरकर।।
वह उठा झुँझला, उधर भी सैकड़ों झुँझला उठे।
मुँह खुला उसका, उधर भी सैकड़ों मुँह खुल उठे।।
त्यौरियाँ उसकी चढ़ी, तो सैकड़ों की चढ़ गईं।
एक की गरदन बढ़ी, तो सैकड़ों की बढ़ गईं।।
वह समझता ही रहा, सब दुश्मनों की चाल है।
पर नहीं जानता था, सब उसी का हाल है।।
ठीक शीशे की तरह, तुम देख लो संसार है।
नेक है वह नेक को, बद के लिए बदकार है।।
तुम अगर सूरत बिगाड़ोगे तो शीशे में वही।
देखनी तुमको पड़ेगी, बात है बिलकुल सही।।



- (क) कुत्ता कहाँ फँस गया था? वहाँ उसने क्या देखा?
(ख) अपना प्रतिबिंब देखकर कुत्ते की क्या प्रतिक्रिया हुई?
(ग) कुत्ता अपने प्रतिबिंब को किसकी चाल समझ रहा था और क्यों?
(घ) कविता के द्वारा कवि क्या समझाना चाहते हैं?
(ङ.) 'आपका व्यवहार आपके मन का दर्पण है' पंक्ति के संदर्भ में अपने विचार 15-20 शब्दों में लिखिए।
(च) सही उत्तर के सामने सही (✓) का चिह्न लगाइए:
- 'बदकार' में कौन सा प्रत्यय है : (क) आर (ख) कार (ग) आकार (घ) र
 - किस शब्द के साथ 'बे' उपसर्ग का प्रयोग नहीं होता? (क) शुमार (ख) करार (ग) सच (घ) काबू
 - 'दुश्मन' शब्द का पर्यायवाची शब्द है: (क) अरी (ख) अरि (ग) आरी (घ) अरे
 - सही शब्द चुनिए: (क) सेकड़ो (ख) सैकड़ों (ग) सेकडा (घ) सैकड़ो

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विशेषण :

संज्ञा या सर्वनाम की विशेषता बताने वाले शब्दों को विशेषण कहते हैं।
उदाहरण : सफ़ेद, पाँच, थोड़ा, यह आदि



**गुण वाचक
विशेषण**

ऐसे शब्द जो संज्ञा और सर्वनाम के गुण, दोष, रंग, आकार, अवस्था आदि का बोध कराते हैं, वे गुण वाचक विशेषण कहलाते हैं।
उदाहरण : मीठा, सुंदर, स्वस्थ आदि।

प्रश्न 2 : रिक्त-स्थानों की पूर्ति गुण वाचक विशेषणों से कीजिए:

- क. दुल्हन.....व दूल्हा.....है।
ख. बीमारी के बाद वह बहुत.....हो गई।
ग.साड़ी कितनी सुंदर है ना!
घ. यह कपड़ा तो बहुत है।
ङ. आम बहुत..... है।
च. हर्ष एक.....खिलाड़ी है।

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प्रश्न 3: (क) निम्नलिखित शब्दों को शुद्ध कीजिए:

आर्शीवाद, प्रकर्ति, ग्रीष्मवकाश, प्रज्वलित, रचियता, निछावर, जोत्सना, उज्ज्वल, प्रदर्शिनी.

(ख) निम्नलिखित वाक्यों को शुद्ध कीजिए:

- i. वह बुद्धिमान स्त्री है।
- ii. रोगी की दिशा ठीक नहीं है।
- iii. वह चुपचाप दम साथे खड़े रहा।
- iv. यहाँ नहीं लिखो।
- v. उसका प्राण-पखेरू उड़ गया।
- vi. वहाँ अनेकों लोग थे।
- vii. एक गर्म कप चाय पीजिए।
- viii. सड़क में बहुत भीड़ है।

संधि एवं संधि-विच्छेद:

संधि का अर्थ है- मेल होना।

दो वर्णों के मेल से जो विकार उत्पन्न होता है, उसे संधि कहते हैं।

उदाहरण: वाचन+आलय=वाचनालय, सदा + एव=सदैव

विच्छेद का अर्थ है-तोड़ना।

जब शब्दों को अलग-अलग किया जाता है, उस प्रक्रिया को संधि-विच्छेद कहते हैं।

उदाहरण: दयानंद=दया+आनंद, वेदांत=वेद+अंत

प्रश्न 4: (क) निम्नलिखित शब्दों का संधि-विच्छेद कीजिए:

- i. परमाणु
- ii. शिक्षार्थी
- iii. देवागमन
- iv. प्राणायाम
- v. मतानुसार

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(ख) निम्नलिखित शब्दों की संधि कीजिए:

- i. भाव+अर्थ=.....
- ii. शरण+अर्थी=
- iii. रजनी+ईश=.....
- iv. रवि+ईश=
- v. राम+ईश्वर=.....

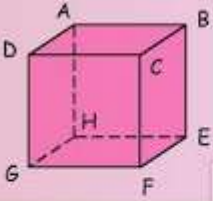
प्रश्न 5: नीचे दिए गए चित्र के आधार पर अपने मन में उभरे विचारों को 30-40 शब्दों में व्यक्त कीजिए:



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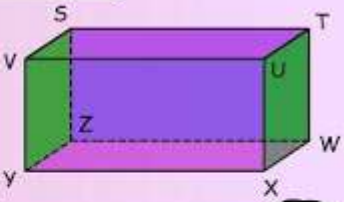
Mathematics

Properties of Cubes and Cuboids



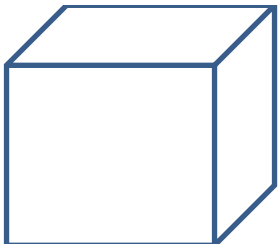
Cube

- 8 vertices
- 12 edges
- All the edges: equal lengths
- 6 faces
- Square faces
- Areas of all the faces: equal



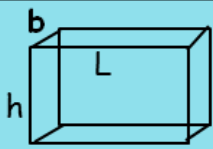
Cuboid

- 8 vertices
- 12 edges
- All the edges: not of equal lengths
- 6 faces
- Rectangular faces
- Areas of the opposite faces: equal

CUBE	LATERAL SURFACE AREA	TOTAL SURFACE AREA	VOLUME
	$4a^2$	$6a^2$	a^3

a: side of the cube

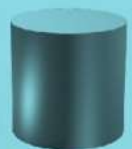
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Cuboid	Lateral surface area	Total surface area	Volume
	$2h(l+b)$	$2(lb+bh+hl)$	lbh

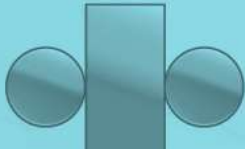
Unit of Side	Unit of Volume
cm	cubic cm or cm^3
mm	cubic mm or mm^3
m	cubic m or m^3

Definition


Cylinder A 3-dimensional figure with a curved rectangular side and a circular top and base. The circular sides are parallel to each other, perpendicular to the rectangular side, and have collinear centers.



Cylinder



Net

Cylinder	Lateral surface area	Total surface area	Volume
 <p>r-radius, h-height</p>	$2\pi rh$	$2\pi r(h+r)$	$\pi r^2 h$

LATERAL SURFACE AREA OF A CYLINDER MEANS CURVED SURFACE AREA

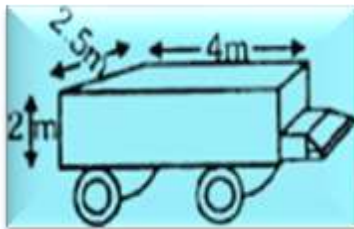
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General Instructions:

1. Solve the assignment in your mathematics notebook.
2. Be neat in your presentation.
3. Draw figures wherever necessary.

Q.1 The lateral surface area of a cube is 2500 sq cm. Find the length of its side.

Q.2 The diagram shows a lorry. Find the volume of the load-carrying part of the lorry.

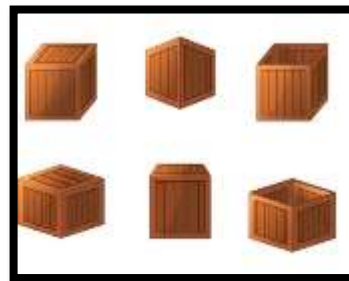


Q.3 What will happen to the volume of a cube, if its edge is:

(i) halved

(ii) trebled

Q.4 How many wooden cubical blocks of side 25 cm can be cut from a log of wood of size 3 m by 75 cm by 50 cm, assuming that there is no wastage?



Q.5 A tea-packet measures 10 cm × 6 cm × 4 cm. How many such tea-packets can be placed in a cardboard box of dimensions 50 cm × 30cm × 0.2 m?

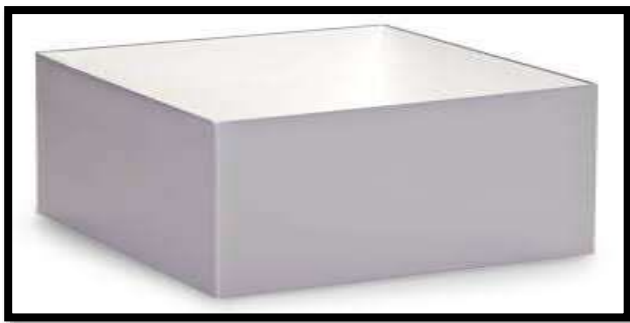


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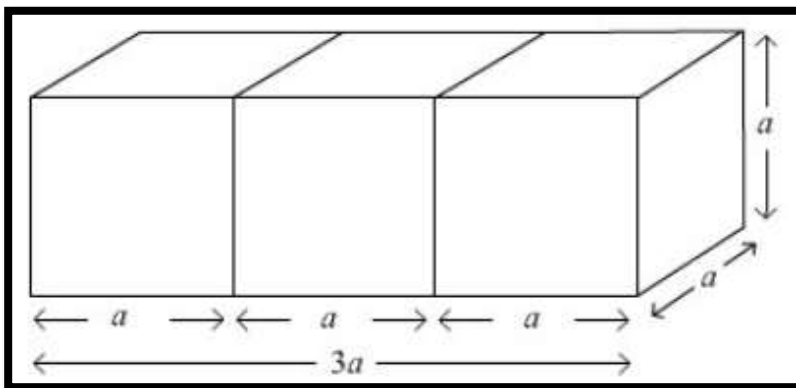
Q.6 How much clay is dug out in digging a well measuring 3 m by 2 m by 5 m?



Q.7 The dimensions of a metal block are 2.25 m by 1.5 m by 0.27 m. It is melted and recast into cubes, each of the side 45 cm. How many cubes are formed?

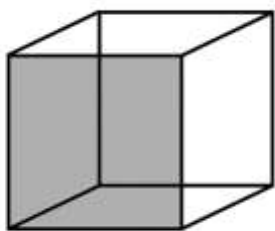


Q.8 Three cubes, each of edge 2 cm. long are placed together. Find the total surface area of the cuboid so formed?

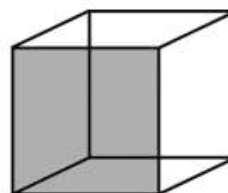


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Q.9 Shown below are two cubes, the front face of each cube is shaded. The shaded area of cube 1 is 3 times the shaded area of cube 2. How many times is the total surface area of cube 1 to that of cube 2?



CUBE 1



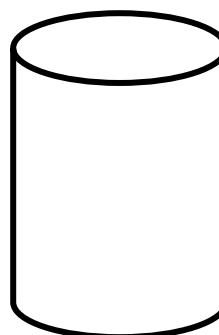
CUBE 2

Q.10 The total surface area of a cubical box is 24 cm^2 . The box is to be painted on four of its outer faces. What is the area of the box to be painted?

$$6a^2 = 24$$

FIND LENGTH OF SIDE OF THE BOX

Q.11 Zubin wants to cover the curved surface of an Old waste paper basket with coloured piece of cloth. The dimensions of the basket are shown alongside. How much cloth (in sq cm) will be required to complete the task?



RADIUS = 17cm

HEIGHT = 84 cm

Q.12 An open cylindrical tank of radius 14 m and height 3 m is made from a sheet of metal. How much sheet of metal was required?

HELP BOX: CSA OF CYLINDER + AREA OF THE BASE



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Q.13 The diameter of a road roller 1.5m long is 84 cm. If it takes 40 revolutions to level a ground, find the area of the ground.



HELP BOX : Find CSA OF CYLINDER

MULTIPLY IT BY 40

Q.14 **GEOMETRIC ROBOT**

Materials required: Graph paper / A4 sheet, ruler

1. Use graph paper to draw a robot that meets the following criteria:
 - The head must be a rectangle with a perimeter of 26 cm.
 - The body must be a square with perimeter of 48 cm.
 - The neck must be a square with perimeter of 8 cm.
 - Each arm must be a rectangle with perimeter of 20 cm.
 - Each leg must be a rectangle with perimeter of 18 cm.
2. Use shapes of your choice for the eyes, ears, hands, feet, mouth and buttons on the body. Colour your robot.
3. Calculate the total perimeter of your robot. Show your work.
4. Calculate the area of each body part and the total area of the robot.
Show your work.



NOTE:

- You can create your own graph paper.
- The picture shown in the question is suggestive only

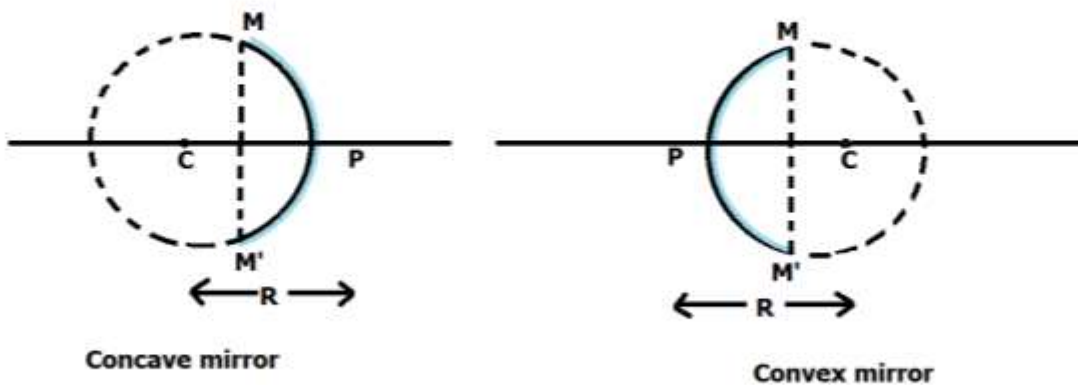
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Science (Physics)

Topic: Spherical Mirrors

A spherical mirror is a mirror that has shape of a piece cut out of a spherical surface. It is a part of a hollow sphere made of a transparent material.

There are two types of spherical mirrors: concave mirror and convex mirror.



History of Spherical Mirrors in Human Civilization

- The first mirrors used by humans were most likely pools of water. The earliest known manufactured mirrors were polished stone pieces.



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- Back in 500 AD, Chinese people began making mirrors with silver-mercury amalgams.



- Claudius Ptolemy conducted various experiments with curved polished iron mirrors.



- A myth claims that by focusing the sun's rays, Archimedes' mirrors raised the temperature of the enemy ships enough that they caught fire.

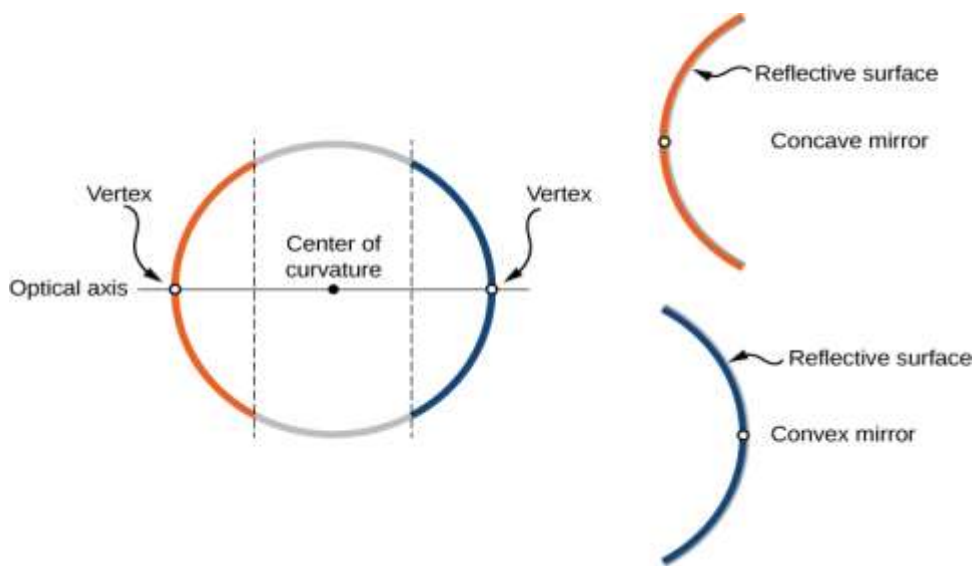


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Basic terms related to spherical mirrors:

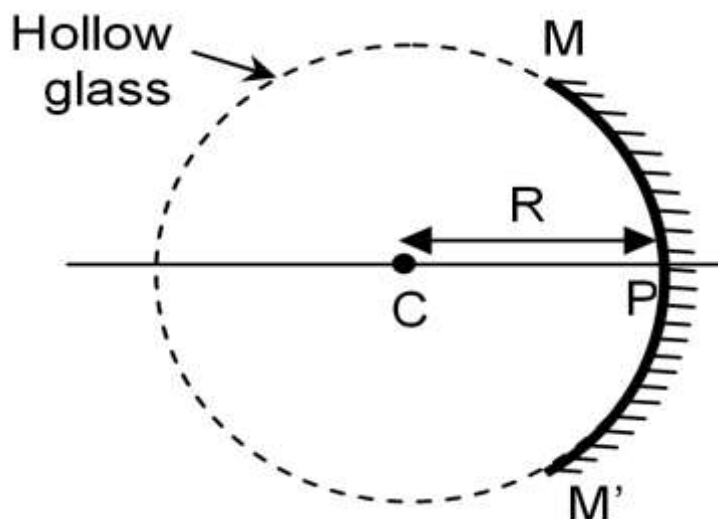
1. Center of Curvature:

The centre of the sphere of which the spherical mirror is a part. It is denoted by 'C'.



2. Radius of Curvature:

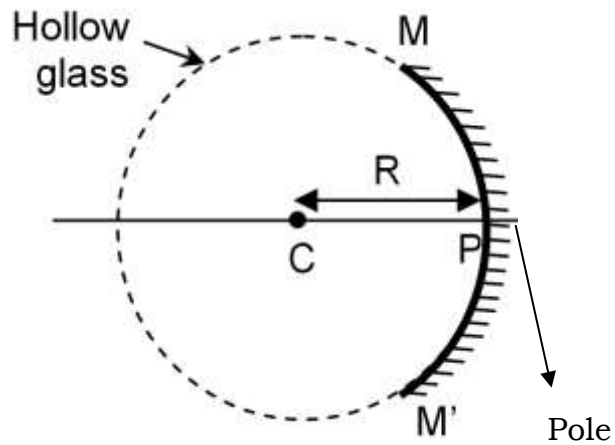
The radius of the sphere of which the spherical mirror is a part. It is denoted by 'R'.



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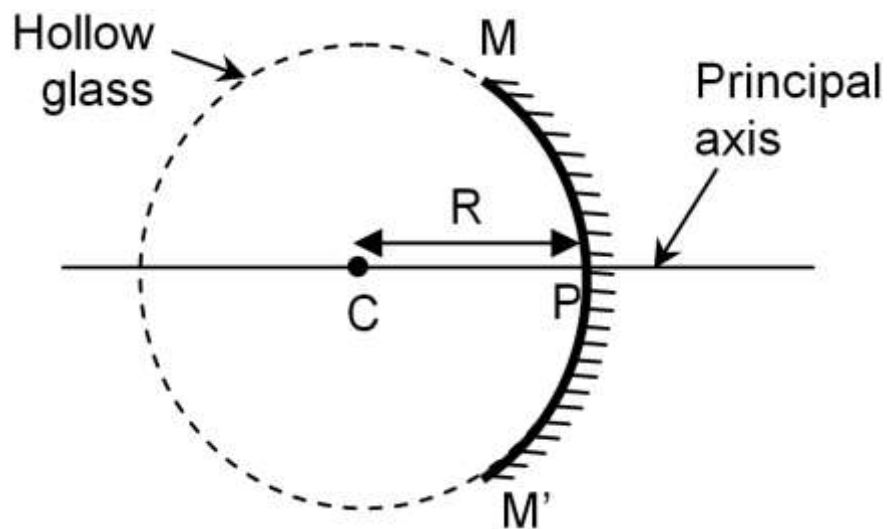
3. Pole:

The midpoint of the reflecting surface of the spherical mirror. It is denoted by 'P'



4. Principal axis:

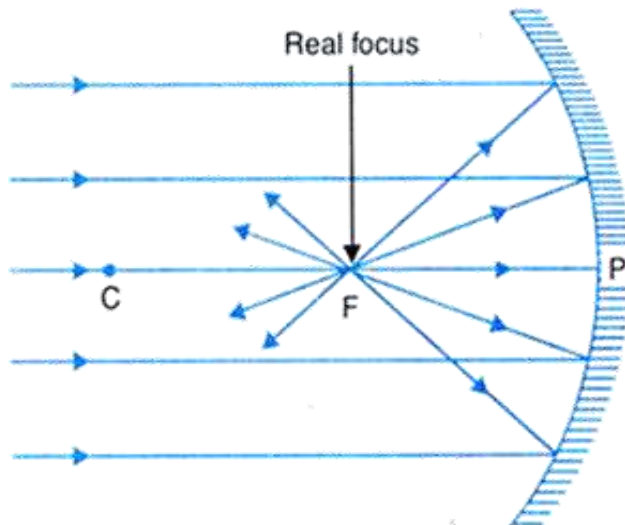
The imaginary line passing through the pole and the center of curvature of a spherical mirror.



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5. Principal Focus:

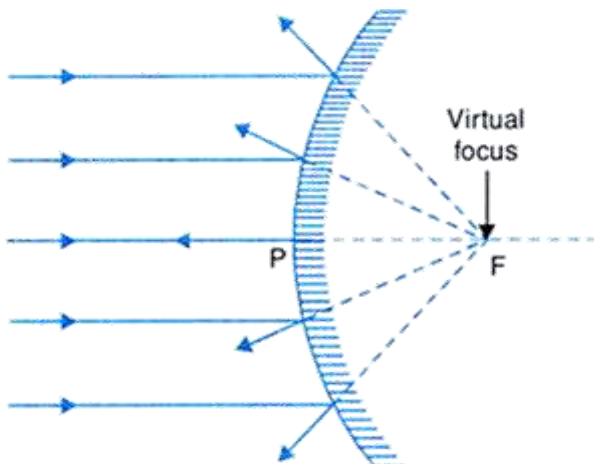
It is a point situated on the principal axis of the mirror where light rays incident parallel to the principal axis converge after reflection from the surface of spherical mirror.



Principal Focus or Focus

Principal focus of a concave mirror is real focus as light rays after reflection actually passing through this point.

In convex mirror light rays incident parallel to principal axis of the mirror after reflection from the mirror appear to come from a point situated on the principal axis of the mirror called principal focus.



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6. Focal length : The distance between pole and principal focus of a spherical mirror is called focal length. It is denoted by ' F '.

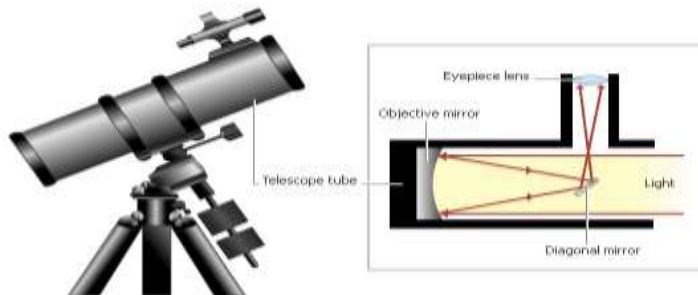
'Focal length of a spherical concave mirror is equal to half of radius of curvature.'

Applications of mirror:

- a) Concave mirror is used in torches to produce a parallel beam of light.



- b) Concave mirror is used in telescopes to collect the light rays coming from distant astronomical objects. Mirror focuses light rays at a point called focus.



- c) Concave mirror is used as make up mirror which produces an enlarged image of the object kept very close to the mirror.



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- d) Concave mirror is used in head light of a car to produce a beam of light.



- e) Concave mirror is used as a reflector in solar cooker to cook the food. Concave mirror converges the rays of light in a small region which helps in increasing the temperature of the region.



Applications of convex mirror:

- a) Convex mirror is used as a rear view mirror in automobiles as it forms the virtual, erect and diminished image of the object.



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- b) Convex mirror is used at the turns of the road to avoid accidents because it gives smaller image covering a larger area of the other side in the mirror.



- c) Convex mirrors are used as a security mirror in malls and shops as it covers a wide range and forms virtual, erect and diminished image of the object.



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Q.1 Name the following:

- i. Radius of the hollow sphere of which spherical mirror is a part.
- ii. The scientist who conducted various experiments with curved polished iron mirrors.
- iii. The mirror used by the dentist to see enlarged image of the teeth.
- iv. Mirror used in automobiles as a rear-view mirror.
- v. Mirror used as shaving mirror.

Q.2 Match the items in column A with those in column B.

- | A | B |
|---|--|
| i. Diverging mirror | a. real focus |
| ii. Light rays pass actually through | b. outward curved surface of spoon |
| iii. Mirrors used in search lights | c. virtual focus |
| iv. Light rays appear to come from | d. large curvature |
| v. Spherical mirrors used in telescopes | e. spherical mirror can be used to burn paper pieces |

Q.3 Choose the correct option.

- a. Mirrors with a curved reflecting surface are called
 - i. plane mirrors
 - ii. spherical mirrors
 - iii. simple mirrors
 - iv. none of the above

- b. Spherical mirror with reflecting surface curved inwards is called
 - i. convex mirror.
 - ii. concave mirror
 - iii. curved mirror
 - iv. none of the above

- c. The centre of a sphere of which the spherical mirror is a part is called
 - i. pole
 - ii. centre of curvature
 - iii. radius of Curvature
 - iv. aperture

- d. The focal length is equal to half of the
 - i. centre of curvature
 - ii. radius of curvature
 - iii. axis
 - iv. none of the above

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- e. The point situated on the principal axis of the spherical mirror at which parallel rays coming from a great distance converge after reflection from the spherical mirror is ...
- principal focus
 - aperture
 - principal axis
 - focal length

Q.4 Activity:

- Take a big spoon (preferably new one) and place the curved inward surface at some distance from your face.
- Adjust the distance and try to observe the image of your face on the curved inward surface of the spoon.
- Move the spoon slowly towards the face and observe the changes in the image.
- Note the observations.
- Now laterally invert the spoon and observe image of your face on the curved outward surface.
- Move the spoon slowly towards the face.
- Note the observations.
- Draw your conclusion for both the observation
- Perform the activity at a well-lighted place.

Home Assignment – May 31, 2020
Class VIII

Social Science

Topic- Natural Vegetation and Wildlife

Let's Pen down our Thoughts!

Q.1 The forest cover of our Earth is fast depleting due to large scale deforestation, human habitations and agriculture. Even the wildlife of our planet is under threat and losing its habitat. However, the most common argument given is that it is done to meet human needs.

Do you agree?

Is it our need or greed which is responsible for the destruction of forests and killing of beautiful and harmless animals? Express your views on the same in 60-80 words.



Imagine and create

Q.2 As you are aware that due to various reasons there has been an alarming decrease and even the extinction of many species.

- i) List out the reasons for the declining tiger population in India.
- ii) Find out the names of the endangered species of animals in India declared by the International Union for the Conservation of Nature and Natural resources.
- iii) Imagine that you have been asked by the Government of India to prepare a poster for its '**Project Tiger**' campaign. **Design a poster and highlight the need to protect our tigers.** Use a catchy tag-line in the poster. (You may stick a picture of a Tiger instead of drawing) Draw the poster in either A4 size sheet or on any plain sheet.





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Get Going!!!

Q.3 If you encircle every sixth letter, you will get the name of the world's largest flying bird.

A M A N C F A R U K O A L I S H N L A S N A D C N K U R O O A T A S R N

Map work

Q.4 On a political map of India, mark and locate the following with the help of clues given.

- i. A national park in the Central India and state of Uttarakhand.
- ii. A wildlife sanctuary in the state of Rajasthan
- iii. A bird sanctuary in the state of Odisha.
- iv. A famous national park for lions in the state of Gujarat.
- v. A popular National park where one-horned Rhinoceros dwell.