

PHYSICS (MCA'S)



SAFALTA CLASS™

An Initiative by अमरउजाला

What is the relation between focal length (f) and radius of curvature (r) of a curve mirror?

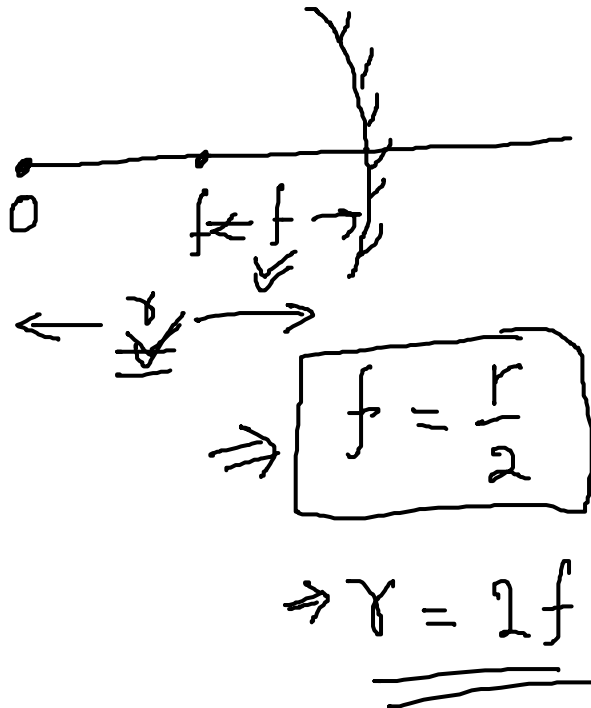
वक्र दर्पण की फोकल लंबाई (f) और वक्रता त्रिज्या (r) के बीच क्या संबंध है?
गोलीय

A: $f = 2r$

B: $f = r/2$ ✓

C: $f = r/3$

D: $f = 3r/2$



//

What is the focal length of a curve mirror is it has a radius of curvature is 40 cm.

गोलीय दर्पण की फोकल लंबाई क्या है, इसकी वक्रता त्रिज्या 40 सेमी है।

A: 20 cm ✓

$$f = ?$$

B: 35 cm

$$\underline{r = 40 \text{ cm}}$$

C: 25 cm

$$f = \frac{r}{2} = \frac{40}{2}$$

D: 40 cm

$$\Rightarrow \underline{f = 20 \text{ cm}}$$

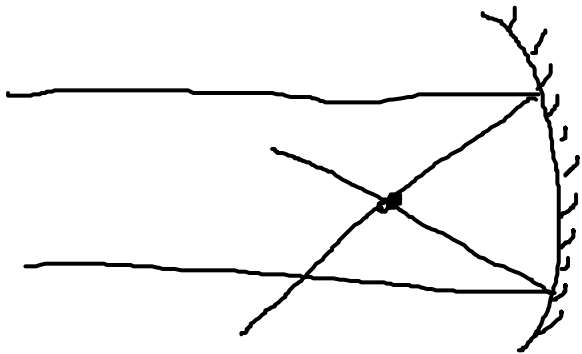
Which type of mirror used in the headlight of a motorcycle?

A: Concave mirror (अवतल) ✓✓

B: Convex mirror (उत्तल)

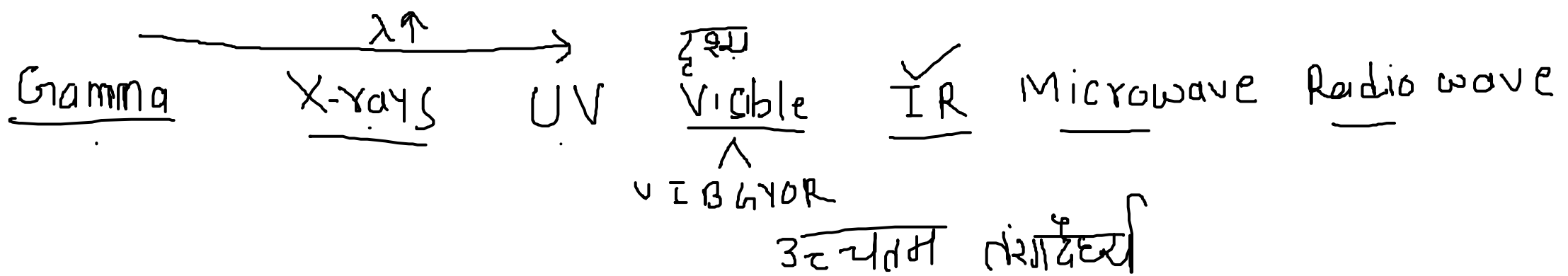
C: Flat mirror (समतल)

D: none of the above



Which type of mirror used in the dental clinic?

- A: Concave mirror ଅବନଳ ✓
- B: Convex mirror ଉତ୍ତଳ
- C: Flat mirror ସମତଳ
- D: None of the above



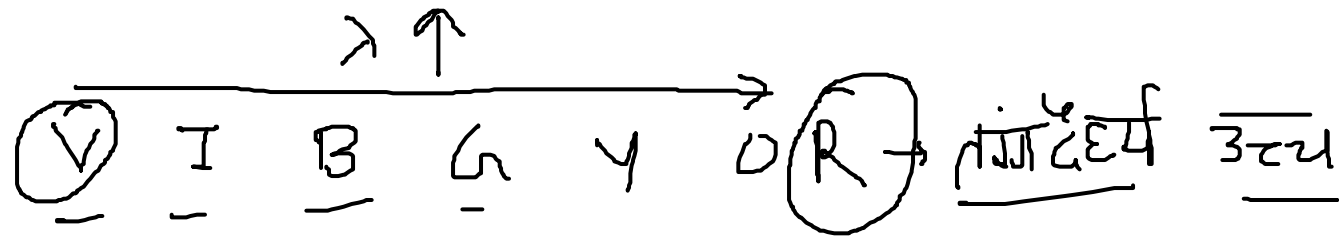
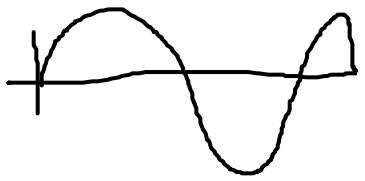
Which of the following has the highest wavelength?

A: X-Ray

B: Gamma ray (गामा)

C: infrared ray ✓

D: ultraviolet ray .

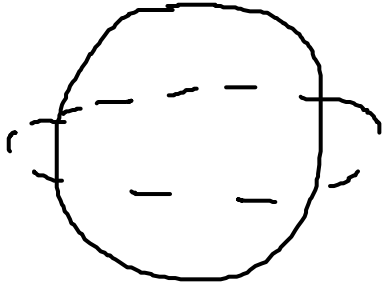


खतरा का निशान

For danger sign, red color is used, because

लाल रंग का फैलाव कम → उच्च निरासक

- A: Scattering of red color is less due to large wavelength ✓
- B: Scattering of red color is less due to small wavelength ✗
- C: Scattering of red color is greater due to large wavelength ✗
- D: Scattering of red color is greater due to small wavelength ✗



भू-स्थिर उपग्रह

- The period of artificial geostationary satellite is:
- A. 8 hours
 - B. 12 hours
 - ✓ C. 24 hours ✓
 - D. 46 hours

ଅଧୀର ଦାହଣୀ ଗଲେ

When body falls towards earth its motion is due to:

- A. Gravitational force ✓
- B. Motion due to gravity
- C. Acceleration due to gravity
- D. Because of zero weight

भार का मात्रक = ?

What is the unit of the magnitude of the weight?

- A. Distance (meter)
- B. Mass (grams) × त्क्यभान
- C. Force (Newton) ✓✓
- D. None of the above

$$W = mg$$

गुरुत्व के कारण त्वरण कम होता है।

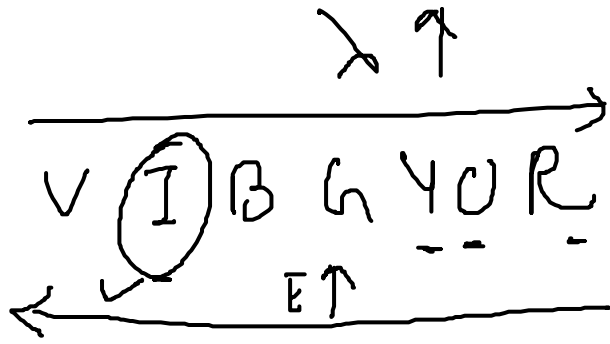
Acceleration due to gravity decreases with:

A. Height

B. Weight χ

C. Amplitude आयाम χ

D. Altitude सतह से ऊंचाई



उच्चतम ऊर्जा

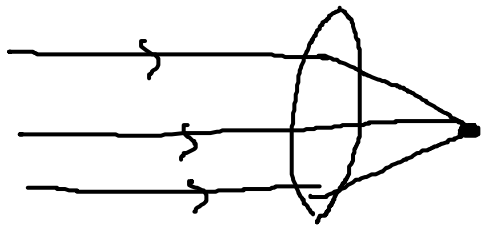
Which among the following has the highest energy?

(1) Red light

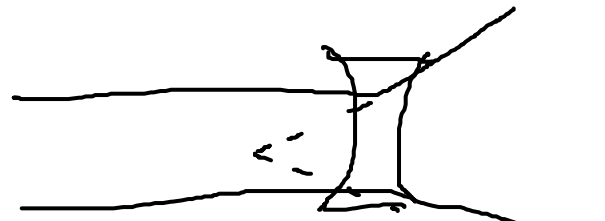
(2) Indigo light ✓

(3) Orange light

(4) Yellow light



लेंस



पड़ने वाले प्रकाश को अन्दर की ओर मोड़ता है-

Which lens generally bends inwards the light falling on it?

(1) Convex उभरतले ✓

(2) Concave अवनतले

(3) Plano concave

(4) Cylindrical

२ १ ए ०५

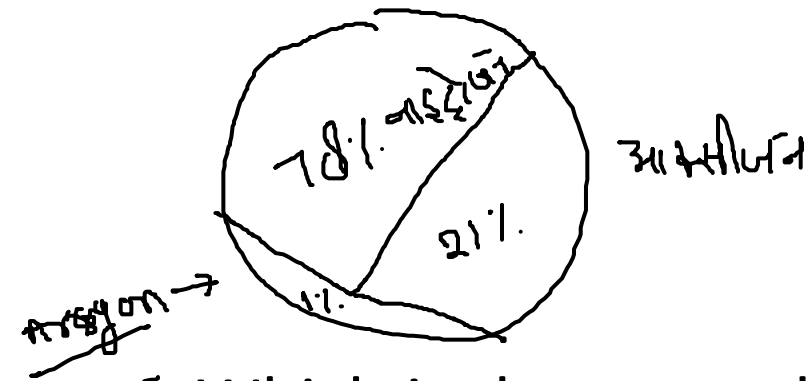
Lubricants are those substances that ___ .

(1) Increase friction. एवमि कर्तुम्

✓ (2) Reduce friction. " एवमि

(3) Do no effect friction.

(4) No option is correct



अक्रिय गैस पृथ्वी के वातावरण में सर्वाधिक मात्रा में

Which is the most abundant inert gas in the atmosphere of earth?

(1) Helium

(2) Neon

(3) Argon ✓ आर्गन

(4) Xenon

Which among the following kinds of lenses are used to treat astigmatism ?

- (1) Concave Lens → अवतल लेंस → निकट दृष्टि दोष
- (2) Convex Lens → उत्तल लेंस → दूर " "
- (3) Bifocal Lens → द्वि फोकस लेंस → Presbyopia
- (4) Cylindrical Lens ✓ बेलनाकार लेंस

ग्राह \Rightarrow गुप्त ऊष्मा (Latent Heat)

सर्वाधिक जलन उत्पन्न करेगा -

Which of the following produces more severe burns?

(1) Boiling Water उबलता जल

(2) Steam ग्राह ✓

(3) Hot air गर्म हवा

(4) Sun rays सूर्य किरण

बारिश की बूंदें गोलाकार होती हैं -

The spherical shape of rain drops is due to.

(1) Viscosity श्यानता

(2) Elasticity पुन्यत्नता

(3) Friction घर्षण

(4) Surface tension सतह तनाव ✓✓

मूल राशि नहीं है - ?

Which of the following is NOT one of the fundamental quantities in physics?

(1) Time समय

(2) Length लंबाई

✓ (3) Weight भार

(4) Mass द्रव्यमान

Length

Mass

Time

Temp

E. current

Lum. Intensity

Am. of subst.

लंबाई

द्रव्यमान

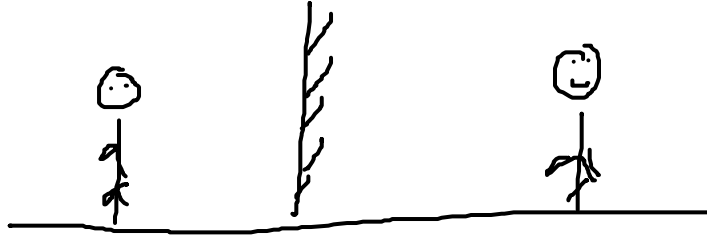
समय

विद्युत धारा

ज्योति तीव्रता

परमाणु संख्या

तापमान



What are the images formed by a plane mirror which could NOT be obtained on a screen called?

(1) Real दाएतविक X

(2) Virtual आभासी ✓

(3) Imaginary काएपनिक

(4) Duplicate X

What are the images formed by a plane mirror which could NOT be obtained on a screen called?

- (1) Always get attracted towards a magnet
- (2) Never get attracted towards a magnet
- (3) Always move away from a magnet
- (4) No option is correct

γ -rays, X-rays, Ultraviolet visible IR, Radio ✓

↗
दृश्य - अदृश्य तरंग
micro

Which of the following is an electromagnetic wave?

✓ (1) Infrared rays ✓

(2) Ultrasonic wave ✓✓

(3) Sound wave →

(4) Cathode rays

नाभिकीय अभिक्रिया

एक भारी नाभिक

What is called the nuclear reaction process in which a heavy nucleus splits into two nuclei of nearly equal mass?

दो समान द्रव्यमान के नाभिक में बँटता है-

(1) Fast breeding

(2) Controlled breeding

(3) Nuclear fission ना. विखण्डन ✓

(4) Nuclear fusion ना. संलयन

पतल तार

बल्ब

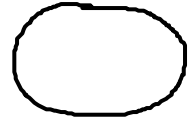
A thin wire that gives off light from the bulb is called ___.

(1) Terminal

(2) Tip

(3) Source

(4) Filament ✓ फिलामेंट



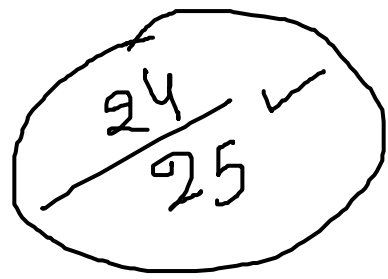
How would a small circular disc with seven rainbow colours appears when rotated fast?

(1) Red

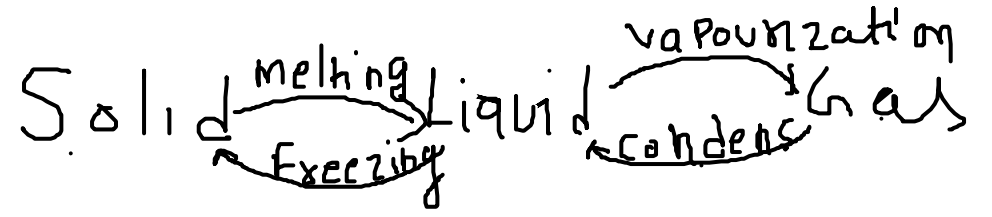
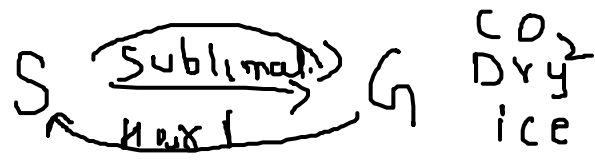
(2) Violet

(3) Green

✓ (4) White ✓ सफ़ेद



Woods
Frost



गर्मीए

ठण्डक

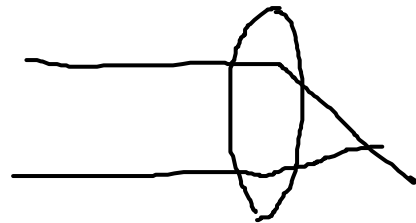
Name the device which is used to measure the hotness or coldness of an object. _____

(Radius)
(a) Picometer → परमाणु की प्रिज्या मापने में।

(b) Barometer → वातावरण में दान

(c) Manometer ✓ दान ✓ Pressure

(d) Thermometer ✓✓





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