

Hots (Higher Order Thinking Skills)

Q. 1. Why is rainbow usually seen after heavy rainfall?

Ans. The rainbow is usually seen after heavy rainfall because after a rain shower, there are droplets of water in air, when sunlight passes through these water droplets, it splits into seven colours and forms rainbow.

Q. 2. What will happen if there were no photoreceptors in the eye?

Ans. If there are no photoreceptors, the brain will get no information about the image formed at retina and thus nothing could be seen.

Q. 3. A girl looked into a plane mirror and saw the clock as shown below. Can you tell what was the time then?



Ans. The plane mirror forms laterally inverted image.



Image



Object

So, the time was 7:40.

Q. 4. What would happen if light incident on the mirror along the normal.

Ans. \because Angle of incidence = Angle of reflection

And $\angle i$ (angle of incidence) = 0

So $\angle r$ (angle of reflection) = 0

So, the light returns back to its path.