

Answer key

Class VIII

Assignment Science

Ans1. D

Ans2. D

Ans3.A

Ans4.C

Ans5. We need light to see in our surroundings. We cannot see our image in the mirror in complete dark room because there is no light to reflect. It is the light reflected by the body which gets reflected by the mirror to form an image in the room. Therefore, no image is formed in the dark room.

Ans6. There are a couple of ways to convert a glass sheet into a translucent sheet:

(a) By applying a thin layer of oil on the glass sheet.

(b) By placing a butter paper on the glass sheet.

Ans7. When we filled air in the balloon, the inside pressure in the balloon increases and thereby the surface area of balloon increases. Thus the force acting by air molecule inside outward and the force acting by air from outside inward equals. This balancing force tend to make a balloon get inflated when air is filled in it.

Ans8. 1.The external ear helps us in receiving the sound waves and directing them to the eardrum.

2.The internal ear has cochlea which is filled with a fluid and having tiny hair cells inside. The hairy cells change the sound vibrations into nerve impulse which travels to the brain.

The Internal ear also helps us in balancing the body.

Ans9. Force applied is given as: 200N

Now, we know that the Pressure is the force applied perpendicular to the surface of an object per unit area. Or Pressure = Force/ Area

(a) Area = 10m²

P = 200N/10m²

Or P = 20 Nm² or 20 Pascal

(b) Area = 5m²

P = 200N/5m²

Or P = 40 Nm² or 40 Pascal

Q10.C

Q11.A

Q12.A