

REVISION WORKSHEET -2 LIGHT- REFLECTIONS AND REFRACTION

1. Draw ray diagram to show the formation of a three times magnified (i) real image, (ii) virtual image of an object kept in front of a converging lens. Mark the position of object, F, 2F, O and position of image clearly in the diagram.

B. An object of size 5 cm is kept at a distance of 25 cm from the optical centre of converging lens of focal length 10 cm. Calculate the distance of the image from the lens and size of the image

2. (a) Draw a ray diagram showing the path of a ray of light when it enters with oblique incidence (i) from air into water (ii) from water into air

(b) Under what condition in an arrangement of two plane mirrors, incident ray and reflected ray will always be parallel to each other, whatever may be the angle of incident. Show the same with the help of diagram.

3. (a) What is refraction of light? Give an expression to relate the absolute refractive index of a medium with speed of light in vacuum.

(b) The refractive index of water and glass with respect to air are $\frac{4}{3}$ and $\frac{3}{2}$ respectively. If the speed of light in glass is $2 \times 10^8 \text{ ms}^{-1}$, then find the speed of light in (i) air, (ii) water.

4. (a) It is desired to obtain an erect image of an object, using a concave mirror of focal length 20cm.

(i) At what should be the range of distance of the object from the mirror?

(ii) Will the image be bigger or smaller than the object?

(iii) Draw a ray diagram to show the image formation in this case.

(b) One half of a convex lens of focal length 20 cm covered with a black paper.

(i) Will the lens produce a complete image of the object?

(ii) Show the formation of image of an object placed at 2F1 of such covered lens with the help of a ray diagram.

(iii) How will the intensity of image formed by half-covered lens compare with non-covered lens?

5. How can you distinguish between a plane mirror, a convex mirror and a concave mirror, just by looking at the image formed by them.

(b) The lens prescribed by the doctor has a power equal to +2.0 D. What does it mean?

(c) What would be the approximate focal length of a spherical lens preferred to use while reading small letters found in a dictionary?

6. (a) A convex lens of focal length 20 cm can produce a magnified virtual as well as real image. Is this a correct statement? If yes, where shall be the object be placed in each case for obtaining these images?

(b) Light enters from air to glass having refractive index 1.50. What is the speed of light in glass? [The speed of light in vacuum is $3 \times 10^8 \text{ ms}^{-1}$]

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Table of Contents Holt Physics 14 2 Diagram Skills Flat Mirrors Answers

1. Understanding the eBook Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - The Rise of Digital Reading Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - User-Friendly Interface

4. Exploring eBook Recommendations from Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Personalized Recommendations
 - Holt Physics 14 2 Diagram Skills Flat Mirrors Answers User Reviews and Ratings
 - Holt Physics 14 2 Diagram Skills Flat Mirrors Answers and Bestseller Lists
5. Accessing Holt Physics 14 2 Diagram Skills Flat Mirrors Answers Free and Paid eBooks
 - Holt Physics 14 2 Diagram Skills Flat Mirrors Answers Public Domain eBooks
 - Holt Physics 14 2 Diagram Skills Flat Mirrors Answers eBook Subscription Services
 - Holt Physics 14 2 Diagram Skills Flat Mirrors Answers Budget-Friendly Options
6. Navigating Holt Physics 14 2 Diagram Skills Flat Mirrors Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Physics 14 2 Diagram Skills Flat Mirrors Answers Compatibility with Devices
 - Holt Physics 14 2 Diagram Skills Flat Mirrors Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Highlighting and Note-Taking Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Interactive Elements Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
8. Staying Engaged with Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
9. Balancing eBooks and Physical Books Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Setting Reading Goals Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Fact-Checking eBook Content of Holt Physics 14 2 Diagram Skills Flat Mirrors Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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