

Lens Practice Problems:Answers

1. A person is using a converging lens ($f=35.0$ cm) to focus an image of the moon onto a piece of paper. The diameter of the moon is 3.48×10^6 m, and its mean distance from the earth is 3.85×10^8 m. What is the diameter of the moon's image on the paper?

Answer= $1/0.35=1/3.85 \times 10^8\text{m} + 1/d_i$
 $1099999999/3.85 \times 10^8\text{m} =1/d_i$
 $d_i=0.35\text{m}$ or 35 cm
 $M=-d_i/d_o=-0.35/3.85 \times 10^8\text{m}=9.09 \times 10^{-10}$
So multiply this by the diameter of the moon to get the diameter of the image
 $9.09 \times 10^{-10}\text{m} \times 3.48 \times 10^6\text{m}=0.003$ m or 0.3 cm or 3 mm

2. A converging lens ($f=12.0$ cm) is held 8.00 cm in front of a newspaper. Find (a) the image distance and (b) the magnification

Answer= a) -24 cm
B) 3.0

3. An object 0.50 cm high is placed 8.6 cm in front of a diverging lens whose focal length is -7.5cm. Find the height of the image.

Answer= 0.23 cm

4. A diverging lens has a focal length of -38 cm. An object is placed 28 cm in front of this lens. Calculate (a) the image distance and (b) the magnification. Is the image (c) real or virtual, (d) upright or inverted, and (e) enlarged or reduced in size?

Answer= a)-16 cm
b) 0.57
c) virtual
d) upright
e) reduced (b/c less than 1 magnification)

5. An object is located 30.0 cm to the left of a converging lens whose focal length is 50.0 cm (a) draw a ray diagram to scale and from it determine the image distance and the magnification. (b) Use the lens and magnification equations to verify your answers in part (a)

Answer= $d_i=-75.2$ cm
 $M=75.2/30=2.5$

Lens Practice Problems Answers

CH Cherryholmes



Lens Practice Problems Answers:

Reviewing **Lens Practice Problems Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Lens Practice Problems Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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