

## 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  $3.48 \times 10^6$ m, and its mean distance from the earth is  $3.85 \times 10^8$ 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 Answers

**SJ Ball**



**Lens Practice Answers:**

## The Enigmatic Realm of **Lens Practice Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Lens Practice Answers** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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