

## 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

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