

Name _____ Date _____
Teacher _____ Period _____

Physics - Mirror Worksheet

1. A concave mirror has a focal length of 10.0 cm. What is its radius of curvature?

 2. An object is 15 cm from a concave mirror of 5 cm focal length. The object is 2.0 cm high. Draw a ray diagram for this situation.
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Based on your drawing, list the characteristics of the image.

Use the equations learned in class to find the following information:

- a. Where is the image located?
 - b. What is the magnification?
 - c. What is the height of the image?
 - d. Is the image real or virtual?
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3. An object is placed 4 cm in front of a mirror having a 12.0 cm radius. Where is the image located? What is the magnification of the image? What are the characteristics of the image?

(OVER)

4. Shiny lawn spheres placed on pedestals are **convex** mirrors. One such sphere has a radius of 10.0 cm. A 1.0 cm bug sits in a leaf 3.0 cm from the sphere. Draw a ray diagram for this situation.

Based on your drawing, list the characteristics of the image.

Use the equations learned in class to find the following information:

- a. Where is the image of the bug located?
- b. What is the magnification?
- c. What is the height of the image?
- d. Is the image real or virtual?

5. You hold the back of a spoon 20 cm from your face. The spoon has a radius of curvature of 20 cm. Where is the image of your face located? What type of image is it? What is the magnification of the image? Is the image upright or inverted?