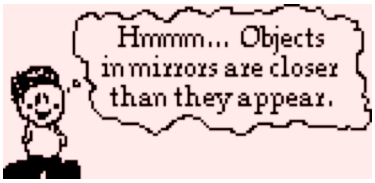
Ray Diagrams for Convex Mirrors

Read from **Lesson 4** of the **Reflection chapter** at **The Physics Classroom:**

http://www.physicsclassroom.com/Class/refln/u13l4b.html
http://www.physicsclassroom.com/Class/refln/u13l4c.html

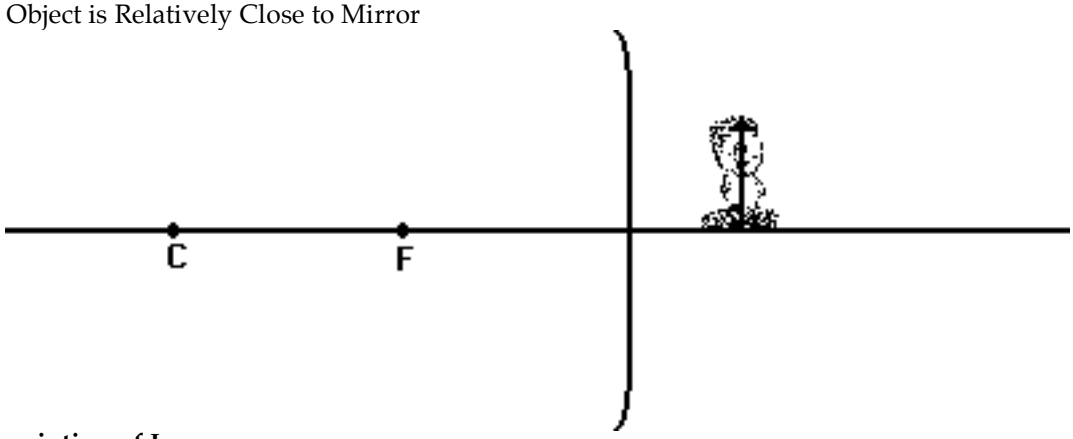
MOP Connection: Reflection and Mirrors: sublevels 8 and 9

For the following mirrors and corresponding object positions, construct ray diagrams. Then practice the **LOST** art of image description. Identify the **L**ocation of the image, **O**rientation (upright or inverted) of the image, the relative **S**ize of the image (larger or smaller than object), and the **T**ype of image (real or virtual).



NOTE: 1) All light rays have arrowheads that indicate the direction of travel of the ray.
2) Always draw in the image once located (an arrow is a good representation).
3) Exactness counts. Use a straightedge and be accurate.

Case 1: Object is Relatively Close to Mirror

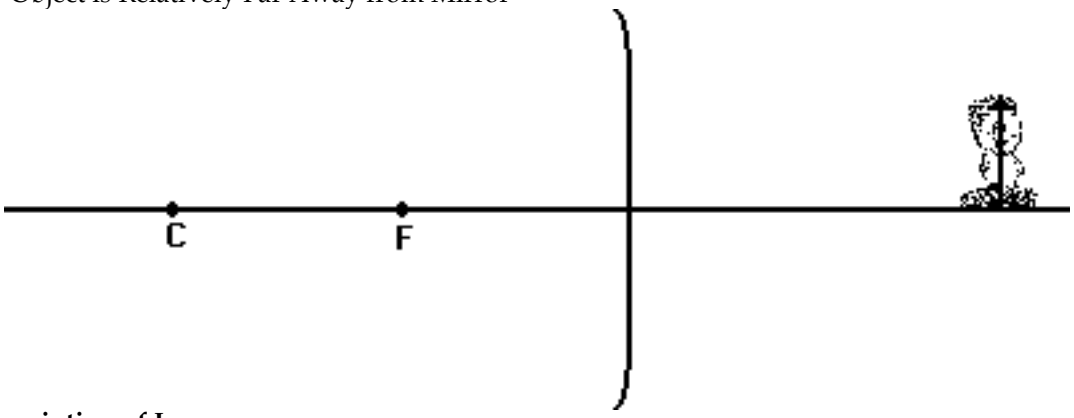


Description of Image:

Location: _____

O: Upright or Inverted **S**: Magnified or Reduced **T**: Real or Virtual

Case 2: Object is Relatively Far Away from Mirror



Description of Image:

Location: _____

O: Upright or Inverted **S**: Magnified or Reduced **T**: Real or Virtual

