

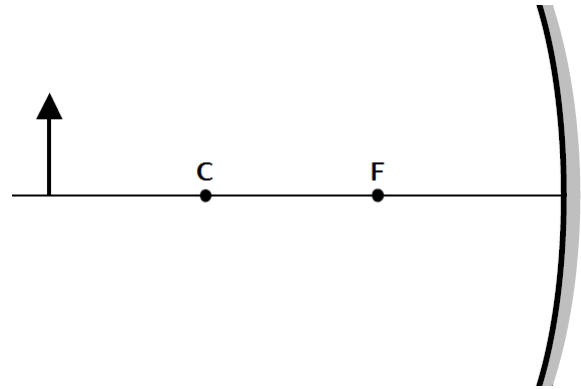
Name: _____ Block: _____

Concave & Convex Mirrors

In each of the following problems, an object that is 12 cm tall is placed in front of a curved, spherical mirror with a focal length of 18 cm.

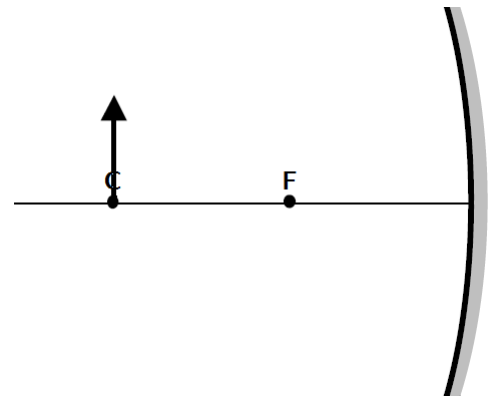
1. The mirror is concave and the object is placed 58 cm from the mirror.

- (a) Show the location and orientation of the image by accurately drawing a ray diagram on the image to the right.
- (b) Calculate the height and orientation of the image, and its distance from the mirror.



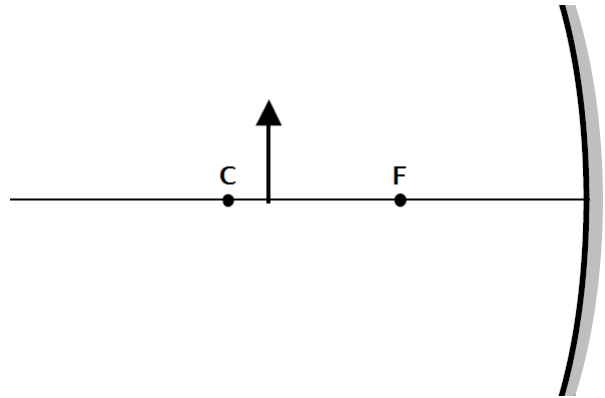
2. The mirror is concave and the object is placed 36 cm from the mirror.

- (a) Show the location and orientation of the image by accurately drawing a ray diagram on the image to the right.
- (b) Calculate the height and orientation of the image, and its distance from the mirror.



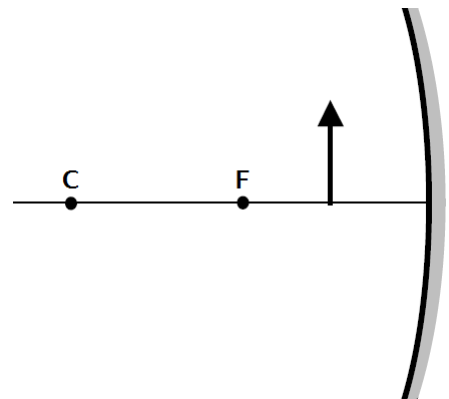
3. The mirror is concave and the object is placed 32 cm from the mirror.

- (a) Show the location and orientation of the image by accurately drawing a ray diagram on the image to the right.
- (b) Calculate the height and orientation of the image, and its distance from the mirror.



4. The mirror is concave and the object is placed 6 cm from the mirror.

- (a) Show the location and orientation of the image by accurately drawing a ray diagram on the image to the right.
- (b) Calculate the height and orientation of the image, and its distance from the mirror.



5. The mirror is convex and the object is placed 15 cm from the mirror.

- (a) Show the location and orientation of the image by accurately drawing a ray diagram on the image to the right.
- (b) Calculate the height and orientation of the image, and its distance from the mirror.

