

## Holt Physics Chapter 13 Mirrors Activity Sheet

Mirrors produce many different types of images—virtual or real, enlarged or reduced, upright or inverted. Fortunately, as you learned earlier in this chapter, the mirror equation and the magnification equation can help sort things out. The mirror equation and the magnification equation

$$\frac{1}{p} + \frac{1}{q} = \frac{1}{f} \qquad M = -\frac{q}{p}$$

relate the object distance ( $p$ ), image distance ( $q$ ), focal length ( $f$ ), and magnification ( $M$ ). Magnification values greater than 1 or less than  $-1$  indicate that the image is larger than the object. Negative magnification values indicate that the image is real and inverted, while positive magnification values indicate that an image is virtual and upright.

In the graphing calculator program LGT, the mirror equation (rewritten to solve for  $q$ ) and the magnification equation are as follows.

$$Y_1 = (XF)/(X-F)$$

$$Y_2 = -Y_1/X$$

Using these equations, the calculator will produce a table of image distances ( $Y_1$ ) and magnification factors ( $Y_2$ ) for various object distances ( $X$ ) for a mirror with a given focal length ( $F$ ). You will use this table to determine the characteristics of the images produced by a variety of mirrors and object distances.

Download the LGT program to your TI-83/84 calculator. Press **PRGM**, then scroll down to LGT by pressing **▸**. Press **ENTER** twice to start the program. Enter the focal length (given below). Use the **▢** arrow keys to evaluate the image distances and magnification factors. Press **ENTER** to stop viewing the table. Press **ENTER** to restart the program.

- a. Rewrite the original mirror equation in terms of the variables  $X$ ,  $Y_1$ , and  $F$ .
- b. Use the LGT program to complete this table.

Focal Length (m)	Object Distance (m)	Concave or Convex Mirror	Image Distance (m)	Magnification	Upright or Inverted Image	Virtual or Real Image
0.32	0.20					
0.32	0.70					
-0.50	0.40					
-0.50	0.85					
0.45	0.25					
0.45	0.40					

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**J Ma**



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