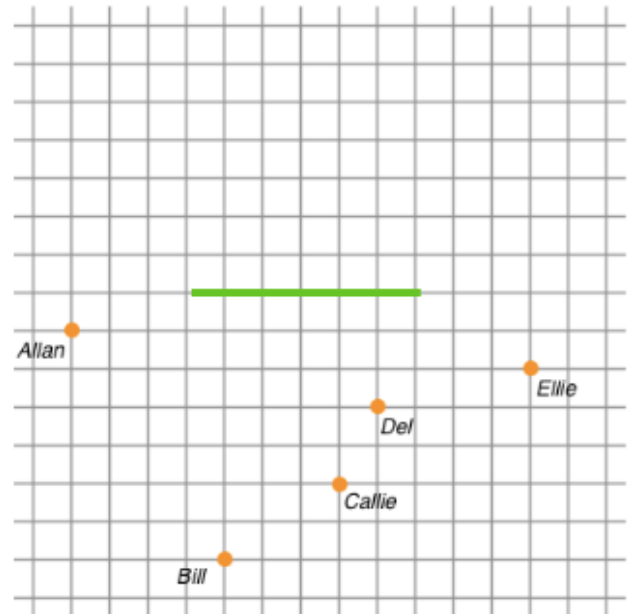


REFLECTION AND FLAT MIRRORS SIMULATION

Who Can See Who?

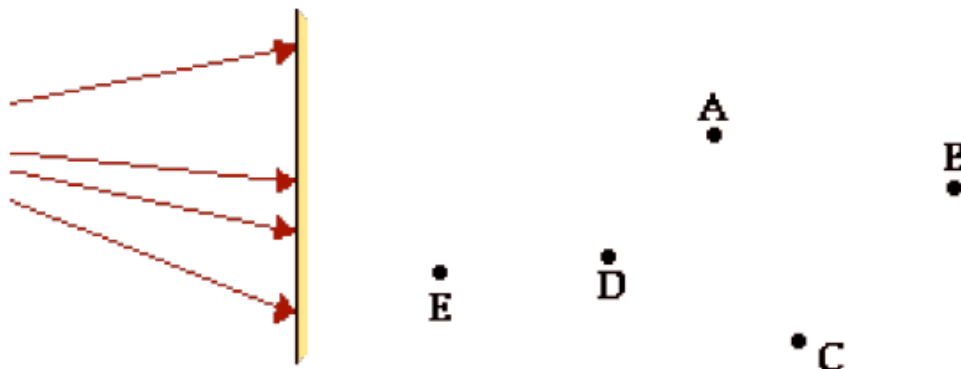
- Go to this website to play the simulation. <http://www.physicsclassroom.com/Physics-Interactives/Reflection-and-Mirrors/Who-Can-See-Who/Who-Can-See-Who-Interactive>
- Circle the people that each person can see in the mirror (including themselves).
- Using the graph draw the incident and reflection ray for each person that Callie can see.
 - Use a different color for each set of lines drawn.
 - Extend each reflection ray beyond the mirror and mark the location of the reflected image with a dot and the person's name.

Person	Who they can see in the mirror
Allen	Allen Bill Callie Del Ellie
Callie	Allen Bill Callie Del Ellie
Bill	Allen Bill Callie Del Ellie
Del	Allen Bill Callie Del Ellie
Ellie	Allen Bill Callie Del Ellie

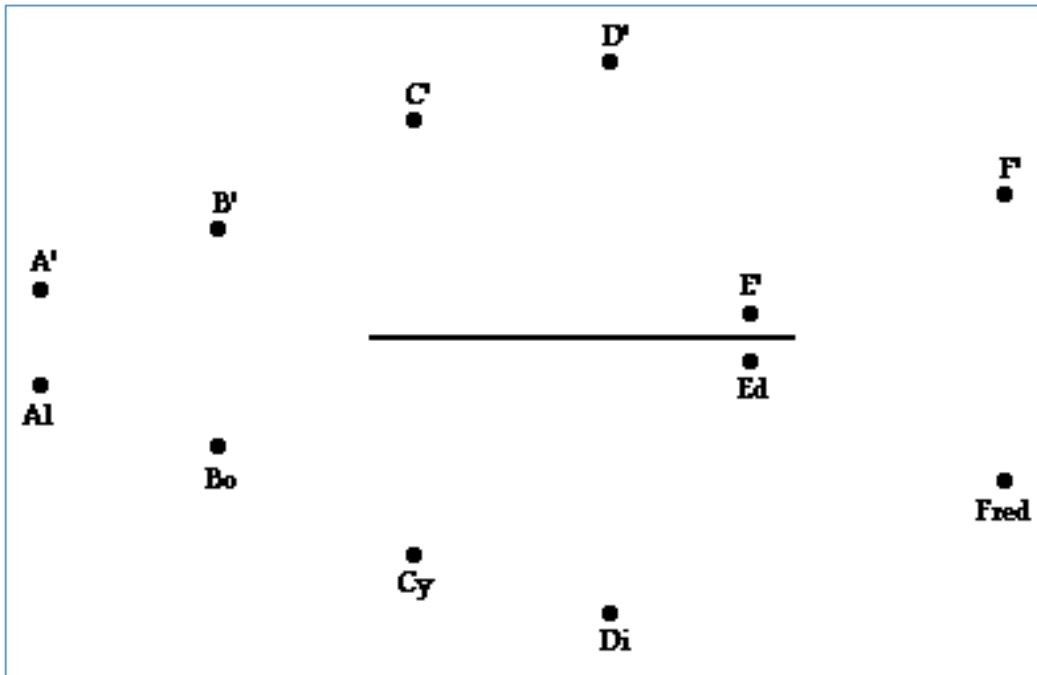


1. What type of image was created by this mirror? (Virtual image or real image) Explain why.

2. The diagram below depicts the path of four incident rays emerging from an object and approaching a mirror. Five lettered locations are shown on the opposite side of the mirror. Which location is representative of the image location?



3. Six students are arranged in front of a mirror. Their positions are shown below. The image of each student is also drawn on the diagram. Make the appropriate line of sight constructions to determine who Al, Cy, and Ed can see.
- Al can see _____
 - Cy can see _____
 - Ed can see _____



4. For the following *objects*, (a) draw the corresponding *images*, and (b) draw and label the incident and reflected rays for the top of the arrow and allow the eye to view the object in the mirror (labeled "m").

