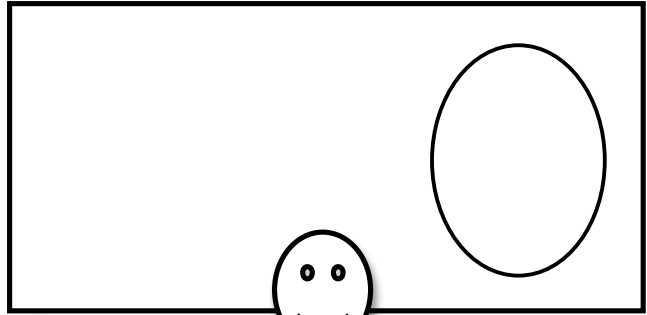


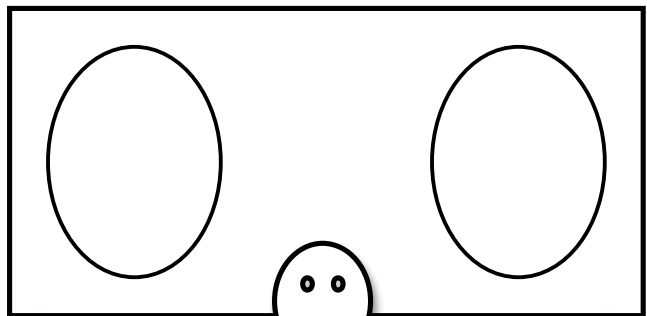
RGB Light Show Worksheet – Color Addition

The sketch to the right shows the shadow of an instructor in front of a white screen in a dark room. The light source is red, so the screen looks red and the shadow looks black. Color the sketch to match what you see.



RED

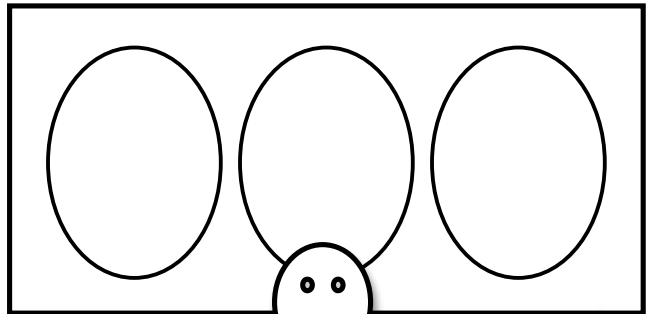
A green lamp is added and makes a second shadow. The shadow cast by the red lamp is no longer black, but is illuminated by green light. So, it is green. Color it green. The shadow cast by the green lamp is not black because it is illuminated by the red lamp. Indicate its color. Do the same for the background, which receives a mixture of red and green light.



RED

GREEN

A blue lamp is added and three shadows appear. Indicate the appropriate colors of the shadows and the background.

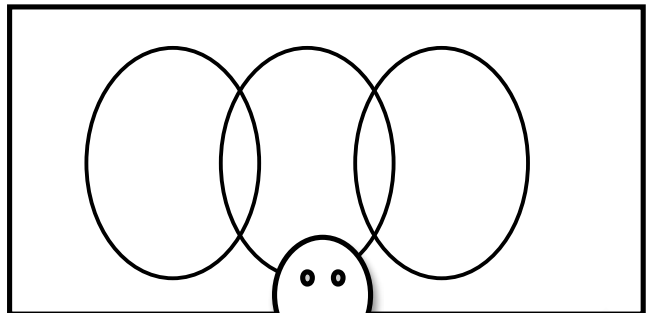


RED

BLUE

GREEN

The instructor moves closer to the screen so the shadows overlap. Indicate the colors of all screen areas.



RED

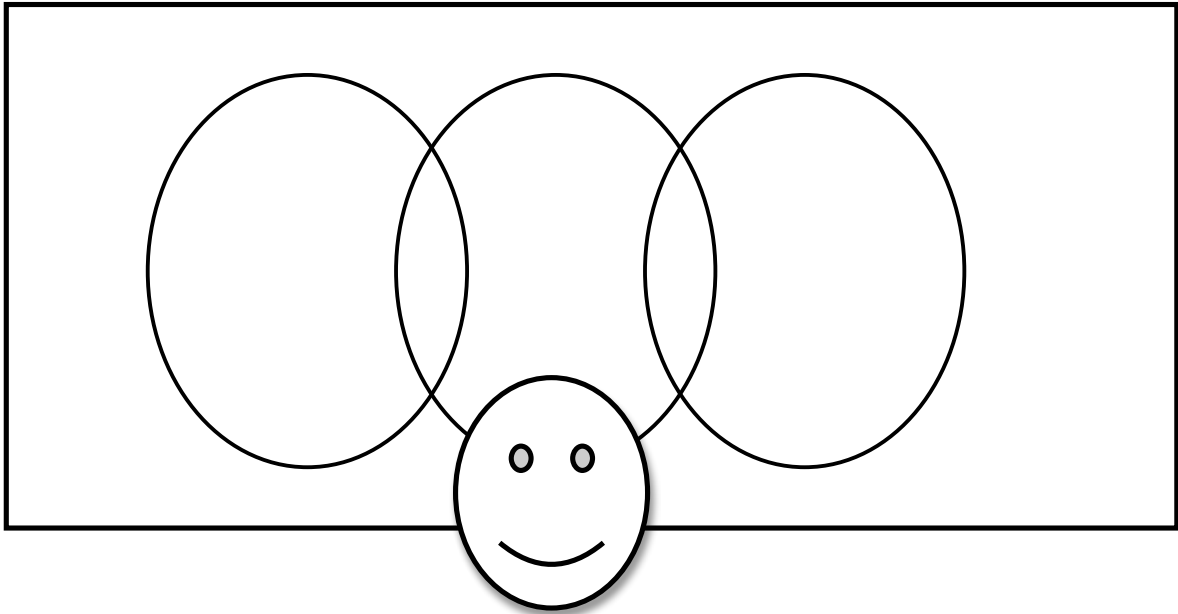
BLUE

GREEN

The REAL Primary Colors

Now, indicate the colors of all screen areas using the new light bulb orders shown on this page.

Setup #2



GREEN

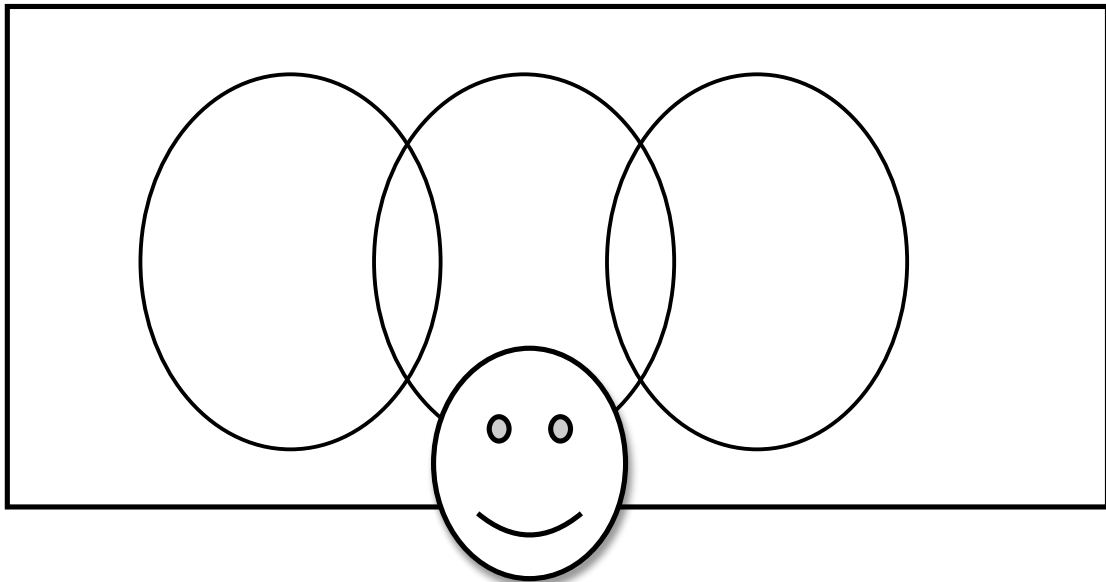


RED



BLUE

Setup #3



BLUE



GREEN



RED