

4. The color orange is perceived by the eyes when both the red and green photoreceptors are stimulated and the red signal is stronger than the green. Given this information, what kind of signals would be received by the eye for the color purple?

5. White paint purchased at a store is often made of a pure white pigment called titanium dioxide. This white paint reflects about 97% of the light that strikes it. Why might this property of the paint mean that you interpret its color as white?

6. You see a chair that is painted yellow. Most likely, pure yellow pigment was used to make the paint. However, explain how your eyes interpret the color yellow.

7. The image you see on a color TV screen is made using the _____ color model. The image is made of thousands of pixels or dots of color. Describe how you could make the following pixels using the RGB color model.
 - a. A white pixel

 - b. A black pixel

 - c. A cyan pixel

 - d. A yellow pixel

8. What colors of light are reflected and/or absorbed by a red apple when:
 - a. White light shines on it?
 - b. Only red light shines on it?
 - c. Only blue light shines on it?