

Name: _____

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Chapter 21.2 Homework
Conceptual Physics

Parent Signature: _____

Each numbered question is worth one point unless otherwise noted.

Reviewing Concepts

7. What is white light in terms of other colors?
8. What determines the color of an object?
9. What are the three additive primary colors?
10. What color of visible light has the least energy? The most energy?
11. Which photoreceptors in your eye respond the most in dim, evening light? Which photoreceptors respond the least? How does this explain your vision in this type of light?

Solving Problems

5. Which star would be hotter, a star that produces blue light or a star that produces red light?
6. Your brain perceives color by an additive process. How would you see the following combinations of light colors? (2)
 - a. red + blue
 - b. blue + green
 - c. red + green
 - d. red + blue + green
7. For stage lighting for a play in a theater, a magenta spot of light is created and a green spot of light. What happens when these two spots of light combine?