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UNIT 2

## **Chapter 5 Review**

**BLM 2-36** 

**Goal** • Check your understanding of Chapter 5.

## What to Do

Circle the letter of the best answer.

- 1. The ray model of light explains that a distant light source is dimmer than a nearby light source. Why is this result observed?
  - A. Light travels in straight lines.
  - B. The angle of incidence equals the angle of reflection.
  - C. The light rays are blocked by objects between the light source and the observer.
  - D. The light rays spread out as they travel.
- 2. In a translucent material, which of the following is true?
  - A. The light rays are absorbed and no clear image is seen through the material.
  - B. The light rays are scattered and no clear image is seen through the material.
  - C. The light rays are transmitted without scattering and a clear image is seen through the material.
  - D. The light rays are transmitted without scattering but no image is seen through the material.
- 3. When light reflects off white paper, why does a mirror image not form?
  - A. The law of reflection does not apply to light reflected from paper.
  - B. The light rays are absorbed by the paper.
  - C. The paper is not made out of metal.
  - D. The paper is not smooth enough to reflect light rays in a regular way.
- 4. When light rays pass from air into glass, which of the following is true?
  - A. They bend away from the normal as they move into a material with greater density.
  - B. They bend away from the normal as they move into a material with lower density.
  - C. They bend toward the normal as they move into a material with greater density.
  - D. They bend toward the normal as they move into a material with lower density.
- 5. A mirror that curves outward is used as a rearview mirror in a car. Why is this type of mirror used?
  - A. It allows more objects to be seen than in a flat mirror of the same size.
  - B. It magnifies the objects seen in the mirror.
  - C. It makes the objects look smaller than they would using a flat mirror.
  - D. The image is clearer than in a flat mirror.

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- 6. Which of the following is **not** a typical use for a mirror with an inward curve?
  - A. as a make-up or shaving mirror in order to see a magnified image
  - B. at the back of a telescope in order to collect light
  - C. behind the light in a flashlight to make a focussed beam
  - D. on the wall of a store for security purposes
- 7. In a ray diagram, the incoming ray is called which of the following?
  - A. incident ray
  - B. normal
  - C. reflected ray
  - D. refracted ray
- 8. A large ball is coated with a reflective material so that it becomes a spherical mirror. As you approach this mirror you can see your own reflection in it. What does your reflected image look like?
  - A. larger and right side up
  - B. larger and upside down
  - C. smaller and right side up
  - D. smaller and upside down
- 9. Which of the following is correct?
  - A. A real image is behind the mirror.
  - B. A real image is formed when extended rays meet.
  - C. A real image is formed when reflected rays meet.
  - D. A virtual image is in front of the mirror.

## Match the Term on the left with the best Descriptor on the right. Each Descriptor may be used only once. Term Descriptor 10. angle of reflection 11. focal point 12. normal 13. opaque 14. transparent Match the Term on the left with the best Descriptor on the right. Each Descriptor A. equal to angle of incidence B. light cannot pass through C. light passes though it freely D. perpendicular to a surface E. place where rays converge

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## **Short Answer Questions**

15.	Contrast these terms:	
	(a)	transmit, absorb
	(b)	translucent, transparent
16.	Dr noi	aw a light ray reflecting off of a plane mirror. Label the incident ray, reflected ray, rmal, angle of incidence, and angle of reflection.