Chass:

Date:

Light and Reflection

# **Chapter Study Guide**

#### **Teacher Notes and Answers**

- $1.4.07 \times 10^{16} \text{ m}$
- 2. a. 3.33 × 10<sup>-5</sup> s
  - b. 1.00 × 10<sup>-4</sup> m
- $3.3.84 \times 10^{8} \text{ m}$
- $4.3.00 \times 10^{11} \text{ Hz}$
- Diffuse reflection: (nonshiny surfaces) table top, floor, walls, car paint, posters (answers will vary)
   Specular reflection: metallic surfaces, water, mirrors (answers will vary)
- 6. a. Check student drawings for accuracy.
  - b. B is 4 m from A horizontally, C is 2 m below B vertically
  - e. D is 2 m below A vertically, E coincides with C
  - d. they will overlap the existing images or objects
- 7. a. 9:00 cm
  - b. p = 30.0 cm; q = 12.9 cm; real; inverted; 2.58 cm tall
    - p = 24.0 cm; q = 14.4 cm; real, inverted; 3.60 cm tall
    - p = 18.0 cm; q = 18.0 cm; real; inverted; 6.00 cm tall
    - p = 12.0 cm; q = 36.0 cm; real; inverted; 2.00 cm tall
    - p = 6.0 cm; q = -18 cm; virtual; upright; 18 cm tall
- 8. p = 30.0 cm; q = -6.92 cm; virtual; upright; 1.38 cm tall
  - p = 24.0 cm; q = -6.55 cm; virtual, upright; 1.64 cm tall
  - $\rho = 18.0$  cm; q = -6.00 cm; virtual; upright; 2.00 cm tall
  - p = 12.0 cm; q = -5.14 cm; virtual; upright; 2.57 cm tall
  - p = 6.0 cm; q = -3.6 cm; virtual; upright; 3.6 cm tall

# **Study Guide Physics And Problems Answers**

Puja Mehta

## **Study Guide Physics And Problems Answers:**

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