#### Physics I Honors: Chapter 14 Practice Test - Refraction of Light

#### Multiple Choice

Identify:	the letter	of the	choice.	char b	test comp	detes M	he statement	or amorners	the guestion.

<ul> <li>a. glass c. area b. medium d. boundary</li> <li>2. Which is an example of refraction? <ul> <li>a. A parabolic mirror in a headlight focuses light into a beam.</li> <li>b. A fish appears closer to the surface of the water than it really is when observed from a riverbank.</li> <li>c. In a mirror, when you lift your right arm, the left arm of your image is raised.</li> <li>d. Light is beant slightly around corners.</li> </ul> </li> <li>3. When light passes at an angle to the normal from one masterial into another material in which its speed is lower, <ul> <li>a. it is bent toward the normal to the surface.</li> <li>b. it always lies along the normal to the surface.</li> <li>c. it is unaffected.</li> <li>d. it is bent away from the normal to the surface.</li> </ul> </li> <li>4. When a light ray moves from air into glass, which has a higher index of refraction, its path is a bent toward the normal.  <ul> <li>c. parallel to the normal.</li> <li>d. not bent.</li> </ul> </li> <li>5. When a light ray passes from zircon (n = 1.923) into fluorite (n = 1.434) at an angle of 60°, its path is a bent toward the normal.</li> <li>d. not bent.</li> <li>e. parallel to the normal.</li> <li>d. parallel to the normal.</li> <li>d. not bent.</li> </ul> <li>6. A beam of light in air is incident at an angle of 35° to the surface of a rectangular block of clear plastic (n = 1.49). What is the angle of refraction?  <ul> <li>a. 12°</li> <li>b. 23°</li> <li>c. 42°</li> </ul> </li> <li>7. Carbon tetrachloride (n = 1.46) is poured into a container made of crown glass (n = 1.52). If a light ray in the plass is incident on the glass-to-liquid boundary and makes an angle of 30.0° with the normal, what is the angle of the corresponding refracted ray with respect to the normal?  <ul> <li>a. 25.6°</li> <li>b. 23.7°</li> <li>d. 64.4°</li> </ul> </li> <li>8. What type of image is formed when rays of light actually intersect?  <ul> <li>a. real</li> <li>b. virtual</li> <li>d. projected</li> </ul> </li> <li>9. In what direction does a par</li>		1.	Refraction is the bending of a wave disturbance as	it passes at an angle from one into another.								
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			<ol> <li>The ray intersects with the center of curvature</li> </ol>	, C.								

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**Dominic F. Sherony, Randi Minetor** 

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