Waves, Light, and Sound

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. You see a book on a shelf. Which path does the light take?
   eye → book → lamp book → lamp → eye eye → lamp → book
   lamp → book → eye

2. A student shines a flashlight at a mirror in a dark room. Where should she stand to see the light?
   anywhere, because light fills the room evenly
   behind the mirror
   where the reflected light can reach her eyes
   behind the flashlight, facing away

3. In a wave model, two waves have the same wavelength. Wave X is twice as tall. What is different?
   Wave X has the longer wavelength
   Wave X has the shorter wavelength
   nothing is different
   Wave X has the greater amplitude

4. A white wall and a black wall are in the same sunny room. Which reflects more light into your eyes?
   neither reflects any light
   both reflect the same amount
   the black wall
   the white wall

5. A tsunami wave is only about 1 meter tall at sea but very long. Near shore it grows very tall. What happens to its energy?
   it moves into the sea floor forever
   it crowds into a taller wave near shore
   it disappears in the deep ocean
   it turns into light near the shore

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