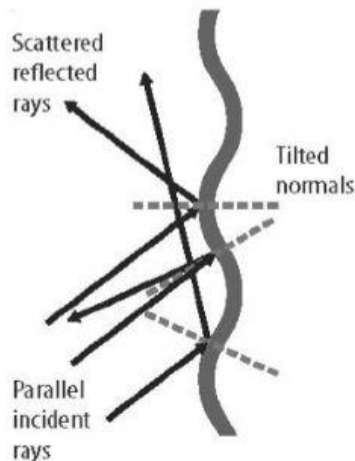


- \_\_\_\_\_ 31. All of the following material would cause diffuse reflections **EXCEPT** \_\_\_\_\_.
- |           |            |
|-----------|------------|
| a. fabric | c. leather |
| b. glass  | d. brick   |

### Matching

**Directions:** Match the description with the correct word (a-k), by writing the correct letter in the space provided. Some of the words may not be used.

- |   |                       |
|---|-----------------------|
| _____ 32. measured in hertz (Hz)  | a. intensity          |
| _____ 33. used to locate objects under water by reflection of sound waves.<br>(used by humans)                        | b. regular            |
| _____ 34. the study of sound.   | c. frequency          |
| _____ 35. caused by the reflection of a sound wave  | d. pitch              |
| _____ 36. the way the brain perceives the intensity of a sound.   | e. Ultrasound         |
| _____ 37. finding objects by emitting sound waves and interpreting the reflected sound<br>(used naturally by animals) | f. Doppler effect     |
| _____ 38. When light reflects off of a rough surface, no clear image forms, this is called a _____ reflection.        | g. echo               |
|   | h. acoustics          |
|   | i. Echolocation       |
|   | j. diffuse            |
|   | k. longitudinal waves |
|   | l. loudness           |
|   | m. Sonar              |



- \_\_\_\_\_ 39. amount of sound energy that flows through a given area in a given amount of time
- \_\_\_\_\_ 40. the change in pitch of a sound caused by motion of either the sound source or receiver.