Directions: Determine if each statement is true or false. If it is false, change the italicized word(s) to correct the sentence.

1. Waves transfer matter as they travel.

2. A wave will travel only as long as it has energy to carry.

3. Anything that moves up and down or back and forth in a rhythmic way is vibrating.

4. All waves need a medium in order to travel.

5. Transverse and congressional waves are the two types of mechanical waves.

6. In a compressional wave the matter in the medium moves back and forth at right angles to the direction that the wave travels.

7. In a transverse wave the matter in the medium moves back and forth in the same direction that the wave travels.

8. In a transverse wave, the peak of the wave is the crest and the lowest spot is the trough.

9. The refraction of a wave is how many wavelengths pass a fixed point each second.

10. The speed of a wave is determined by multiplying the wavelength by the frequency.

11. In a compressional wave, the denser the medium is at the compressions the smaller its amplitude.

12. In a transverse wave, the higher the amplitude, the more energy it carries.