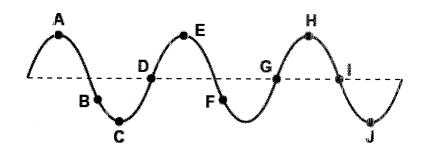
WAVES WORKSHEET

1.	The highe	est point on a wave is the, while the lowest point is the
2.	The	of a wave is a measure of the amount of energy it carries.
3.	The distar	nce from one crest to the next crest is the
4. amo	The unt of time.	is a measure of the number of waves that pass a point in a given
5. a wa belo	ive. Label e	ation to the right shows ach part in the space
	a	
	b	
	C	b.
	d	
6. Us	se the five ill	ustrations of waves drawn below to answer the following questions:
P Q R		S MMM T MMM T
Wav	es P and Q l	nave the same, but wave P has twice the of wave Q.
Wav	es Q and R l	have the same, but wave R has twice the of wave Q
Wave	e	shows a steady frequency but changing amplitude.
Wav	veshows steady amplitude but a changing frequency.	
ampl	itude and a	and have a low steady frequency. questions refer to the diagram to the right:

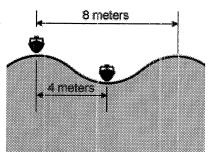
Is this wave transverse or longitudinal?
Letter H represents a and Letter I represents a
Letter G represents a
8. In what type of wave is the vibration perpendicular to the direction of travel of the wave?
9. What type of wave vibrates parallel to the direction of travel?
10. What type of wave contains compressions and rarefactions?
11. What type of wave is produced when you move one end of a horizontal spring up and down?
12. What type of wave has a wavelength?
13. Obtain a ruler and determine
the wavelength of the wave to the right.
Wavelength =
14. In the diagram below, identify the parts of a wave by using the provided definitions. # = crest
5. 1. 2. 4. 3. 4. 4. 4.

15. The distance between which two points is one wavelength?



- 1) A and C
- 2) B and F
- 3) D and E
- 4) G and I

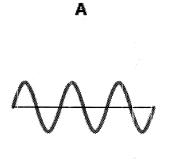
16. The wavelength shown in the diagram is

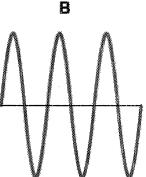


- 1) 2 meters
- 2) 4 meters
- 3) 8 meters
- 4) 12 meters

17. Wave B will create a

sound than wave A.



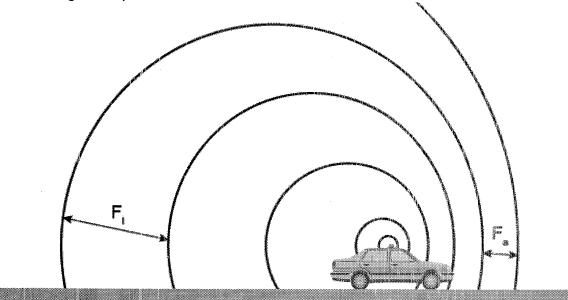


- 1) Louder
- 2) quieter
- 3) lower pitch
- 4) higher pitch

18. The distance between one point on a compression and the corresponding point on the next compression in a sound wave is called a

- 1) Wavelength
- 2) rarefaction
- 3) crest
- 4) trough
- 19. Through which of these can sound not travel?
- 1) Wood
- 2) Water
- 3) Vacuum
- 4) Air

- 20. Due to the Doppler effect, when moving AWAY from the source of a sound,...
- 1) The pitch of the sound should get lower
- 2) The pitch of the sound should get higher
- 3) The sound should get louder
- 4) The sound should get more quiet
- 21. Objects that vibrate with large amplitudes produce what kind of sounds?
- 1) High pitch
- 2) Quiet
- 3) Low pitch
- 4) Loud
- 22. If a wave has a high frequency then it has a high pitch.
- 1) True
- 2) False
- 23. A wave that has a great amount of energy has a large amplitude.
- 1) True
- 2) False
- 24. The diagram represents



- 1) The actual shift in frequency of sounds waves by a moving object
- 2) The apparent shift in frequency of sounds waves by a moving object
- 3) The actual shift in frequency of sounds waves by a stationary object
- 4) The apparent shift in frequency of sounds waves by a stationary object
- 25. What is a wave?
- 1) A vibration that transfers energy
- 2) Disturbance that transfers energy from every place
- 3) Energy disturbance
- 4) A disturbance in water