

Sound Waves

Review for Test



Sound Wave Review

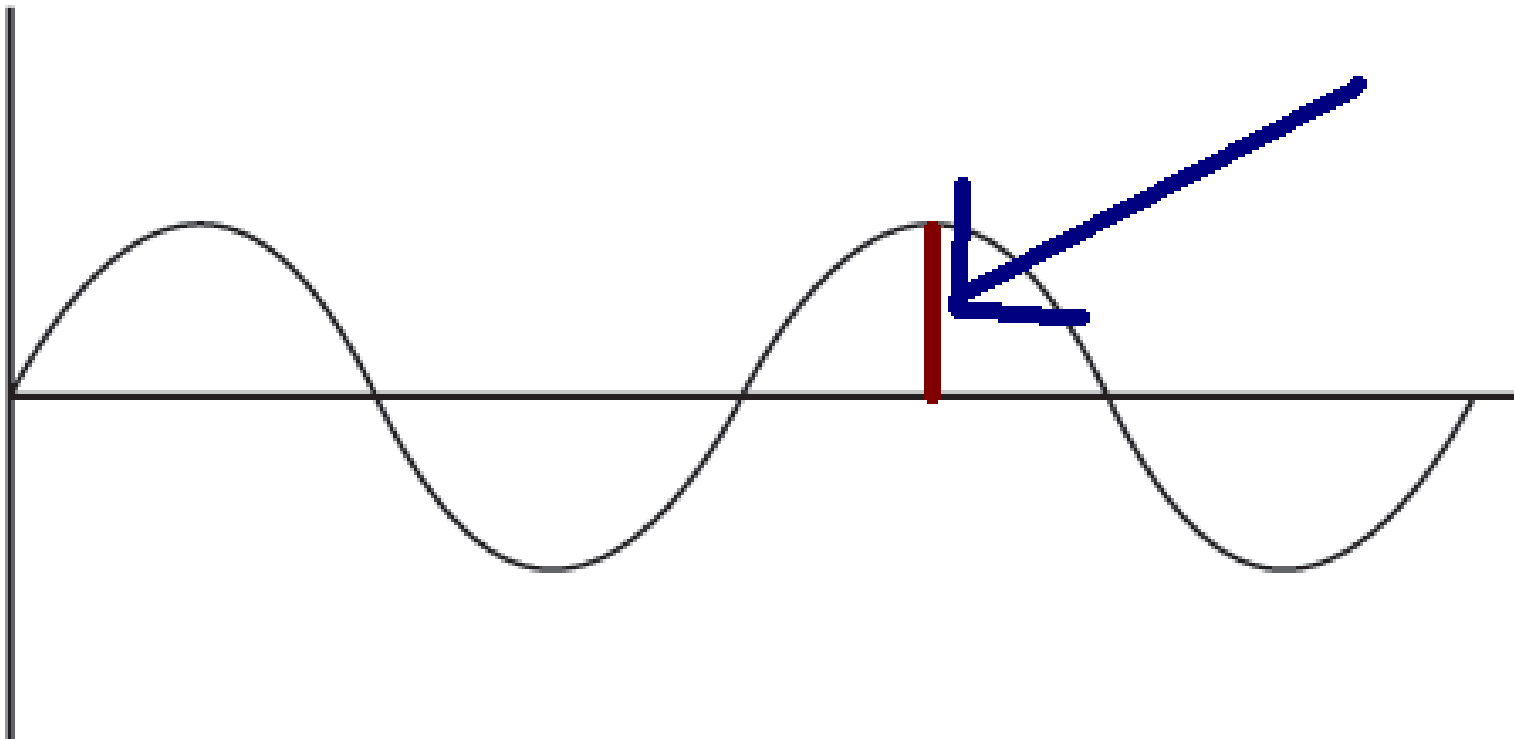
- Questions will be asked
- You will record your answer
- Answers will be given at the end
- Easy enough?
- Number your paper 1-25
- Let's begin

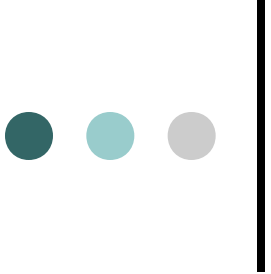


1. True or False

- Sound waves can travel through space

2. What is the diagram showing?





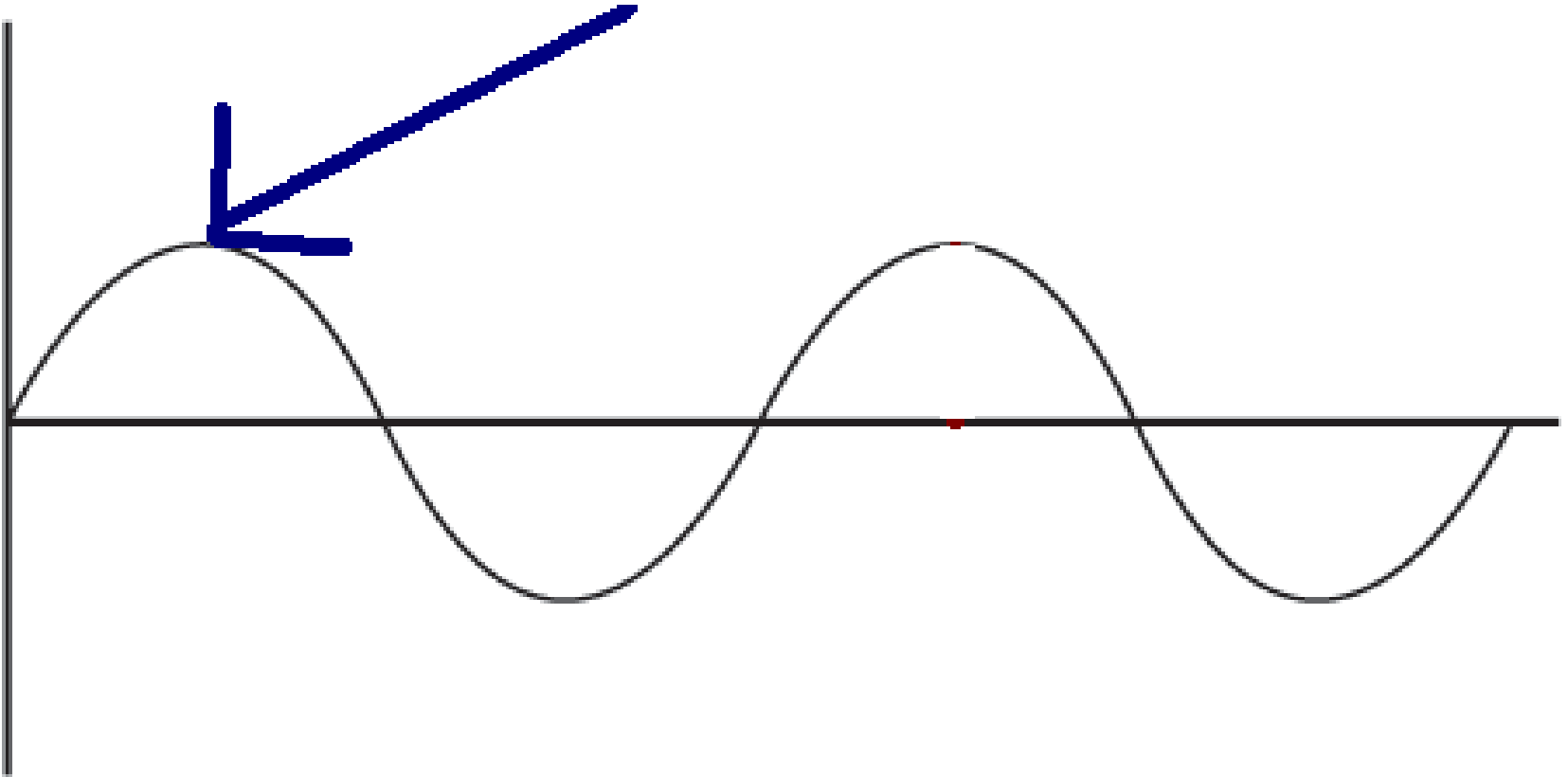
3. What is the plural for
“medium”?



4. True or False

- Sound travels faster through air than through water.

5. What is the diagram showing?





6. True or False

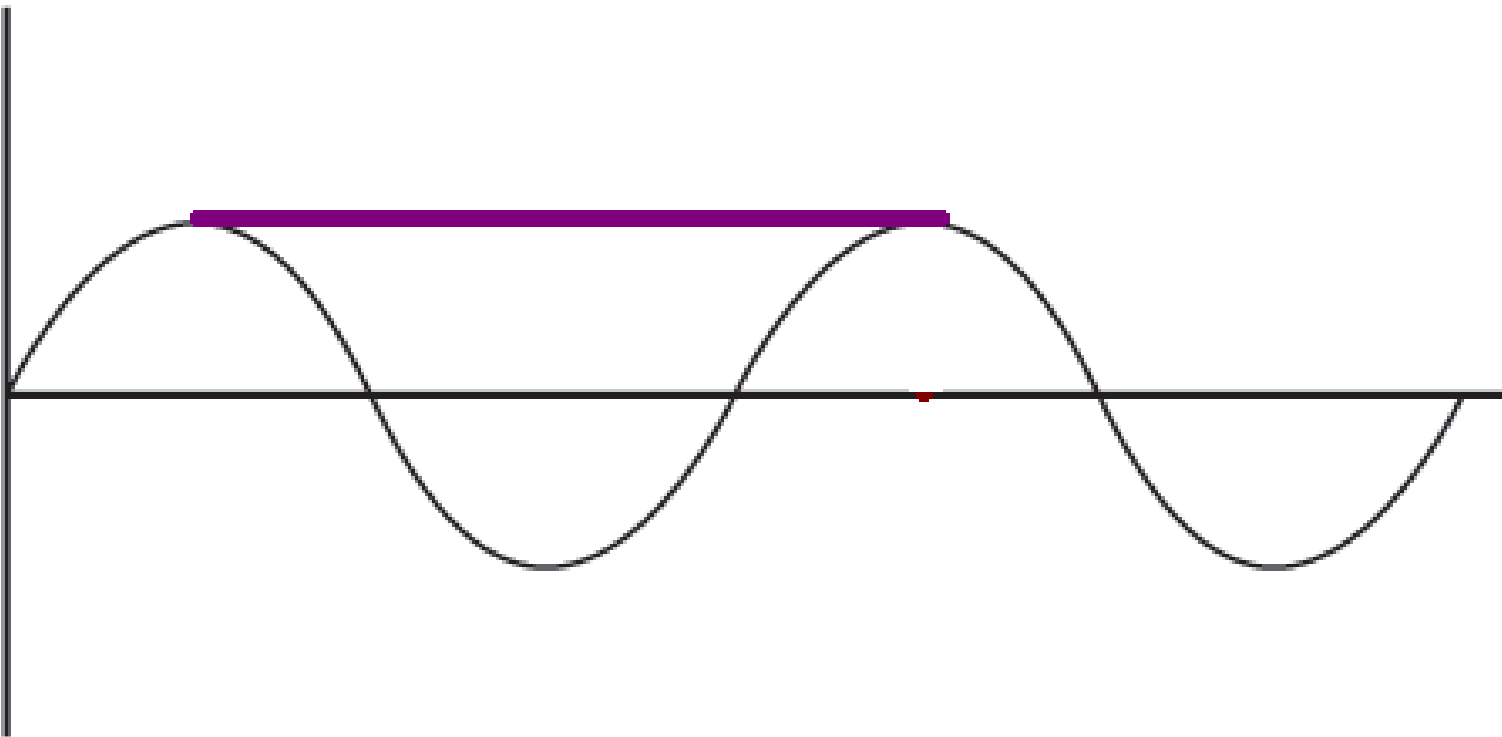
- A sound wave is an example of a mechanical wave.



7. True or False

- Mechanical waves require a medium to travel

8. What is the diagram showing?

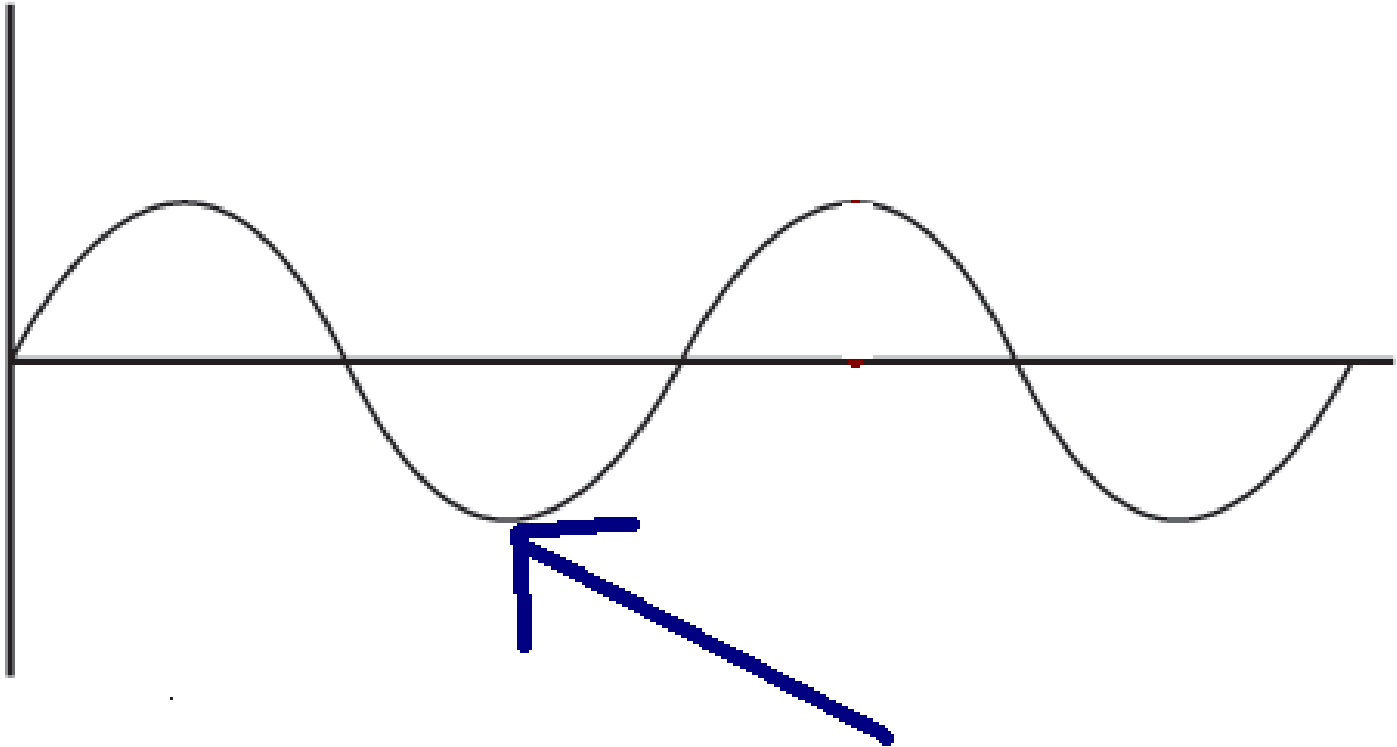




9. True or False

- Light travels faster than sound.

10. What is the diagram showing?

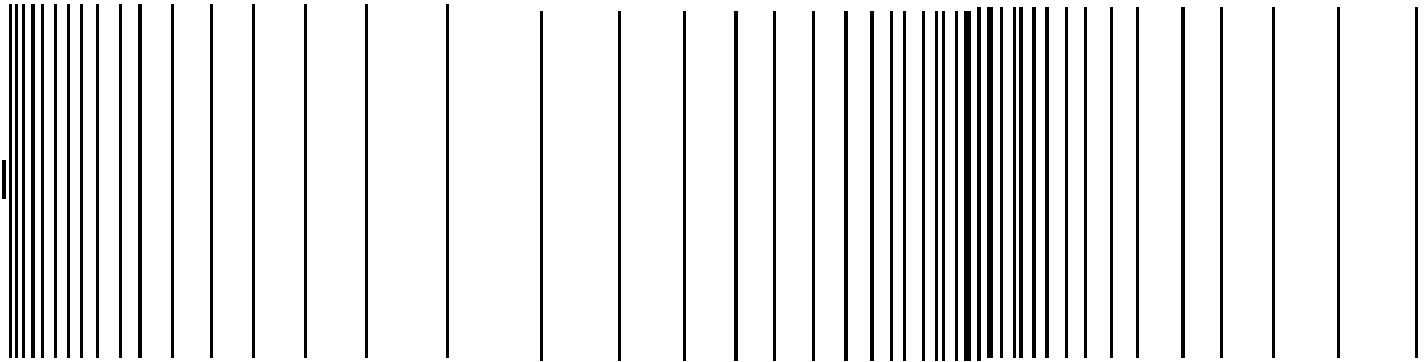




11. Short answer

- If someone asks you to increase the amplitude, what are they asking you to do?

12. What is this diagram showing.

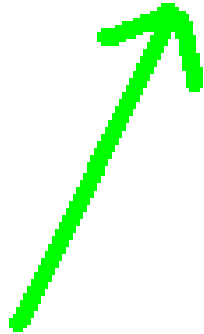
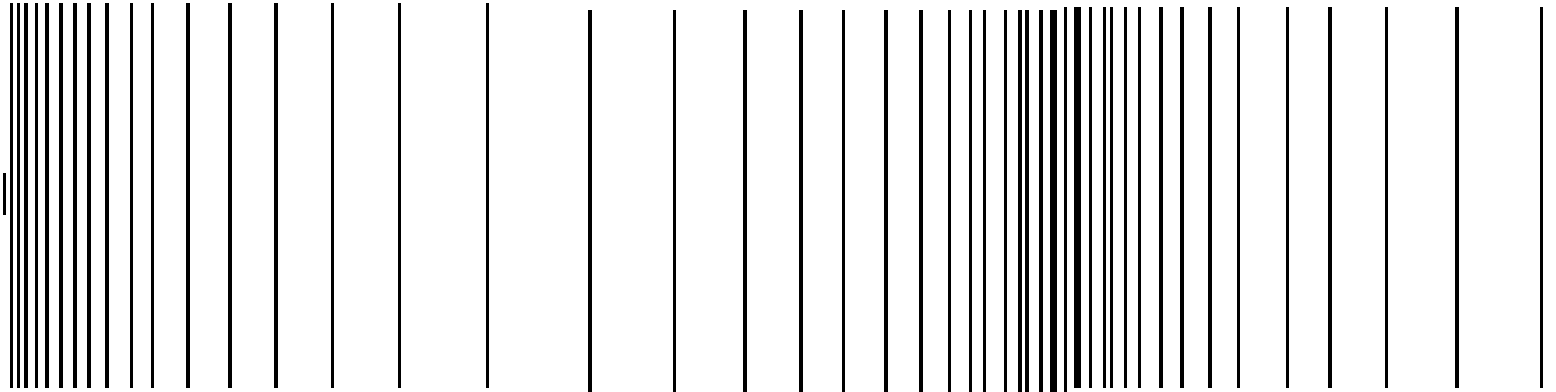




13. True or false

- Sound travels faster through steel than through air.

● ● ● | 14. What is this diagram showing?





15. Short answer

- What kind of surface will reflect sound the best?



16. True or False

- Sound can travel through a vacuum.



17. Fill in the blank

- When a sound wave reflects off a surface you get a(n) _____



18. True or False

- Electromagnetic waves can travel through space.



19. Fill in the blank

- All waves transfer _____



20. Fill in the blank

- The change in pitch that you notice when an ambulance drive past you with the siren blaring is called the _____ effect.



21. True or False

- Sound travels faster through cold air than warm air.



22. Which string will have the higher pitch?

a.



b.





23. True or False

- Sound waves are transverse waves.



24. Which string will have a higher pitch?

a.



b.





25. Fill in the blank

- The higher the pitch, the _____ the frequency.



Get ready for the answers!

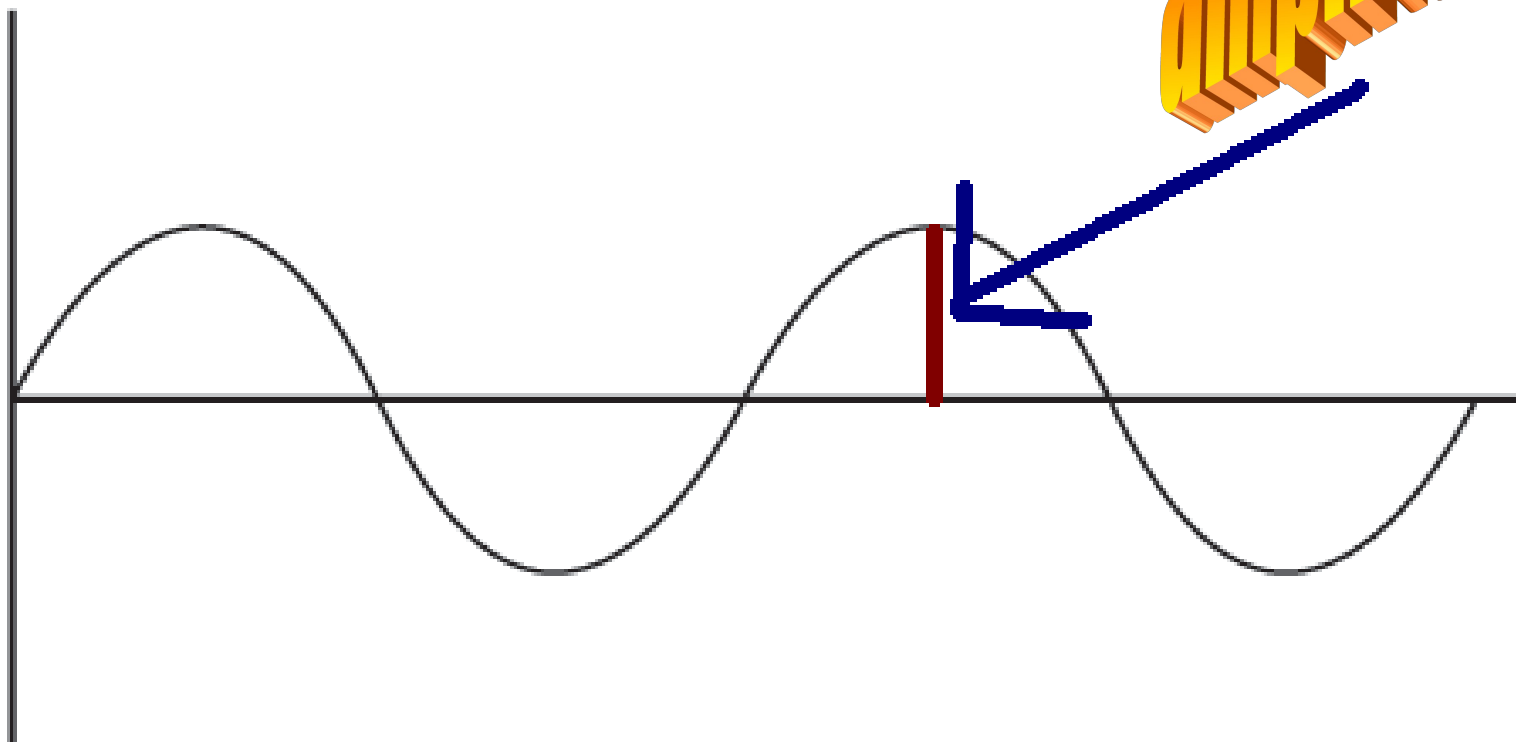


1. True or False

- Sound waves can travel through space

False

2. What is the diagram showing?



amplitude

● ● ● | 3. What is the plural for
“medium”?

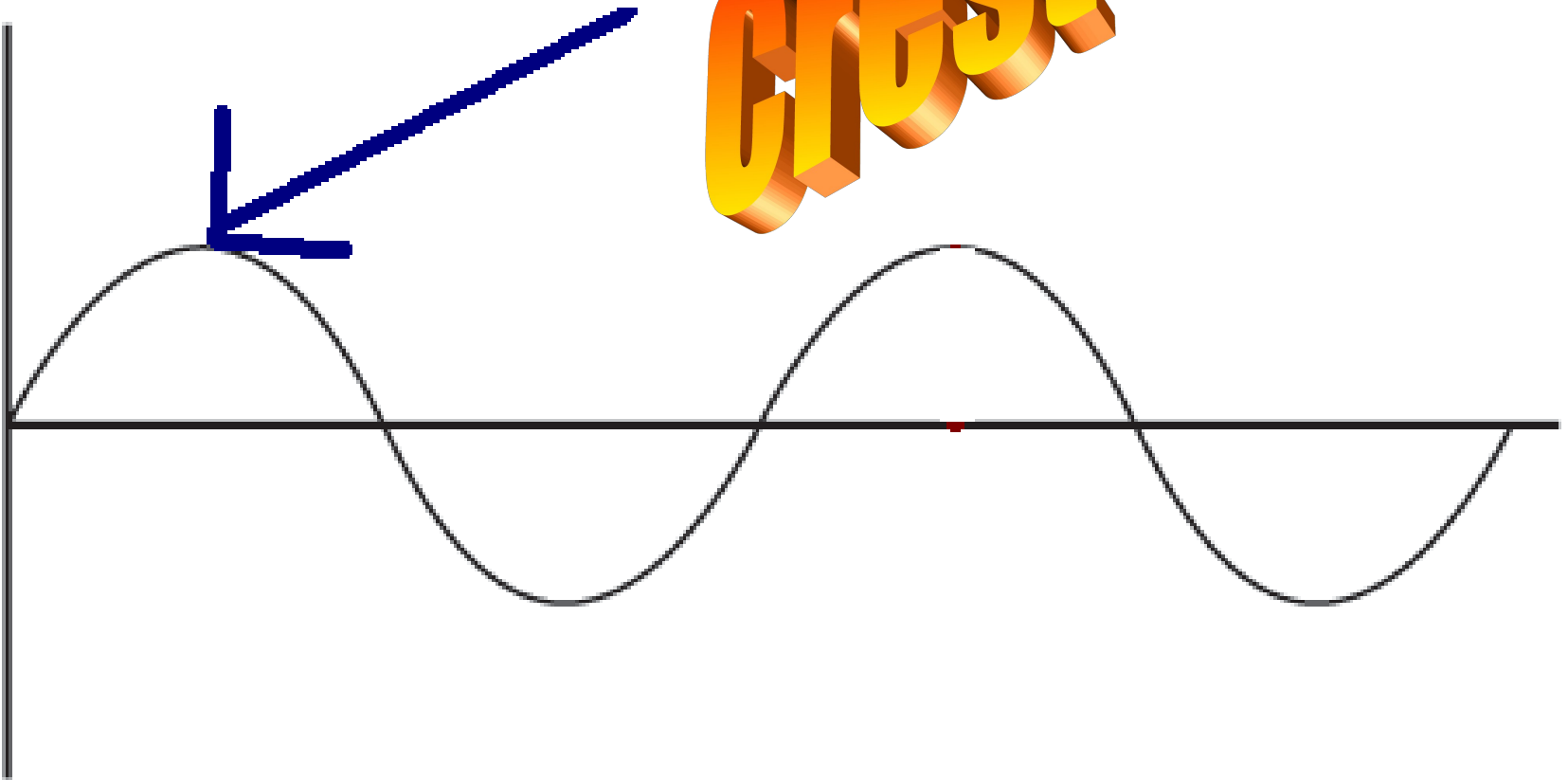
media

4. True or False

- Sound travels faster through air than through water.

false

5. What is the diagram showing?



6. True or False

- A sound wave is an example of a mechanical wave.

True

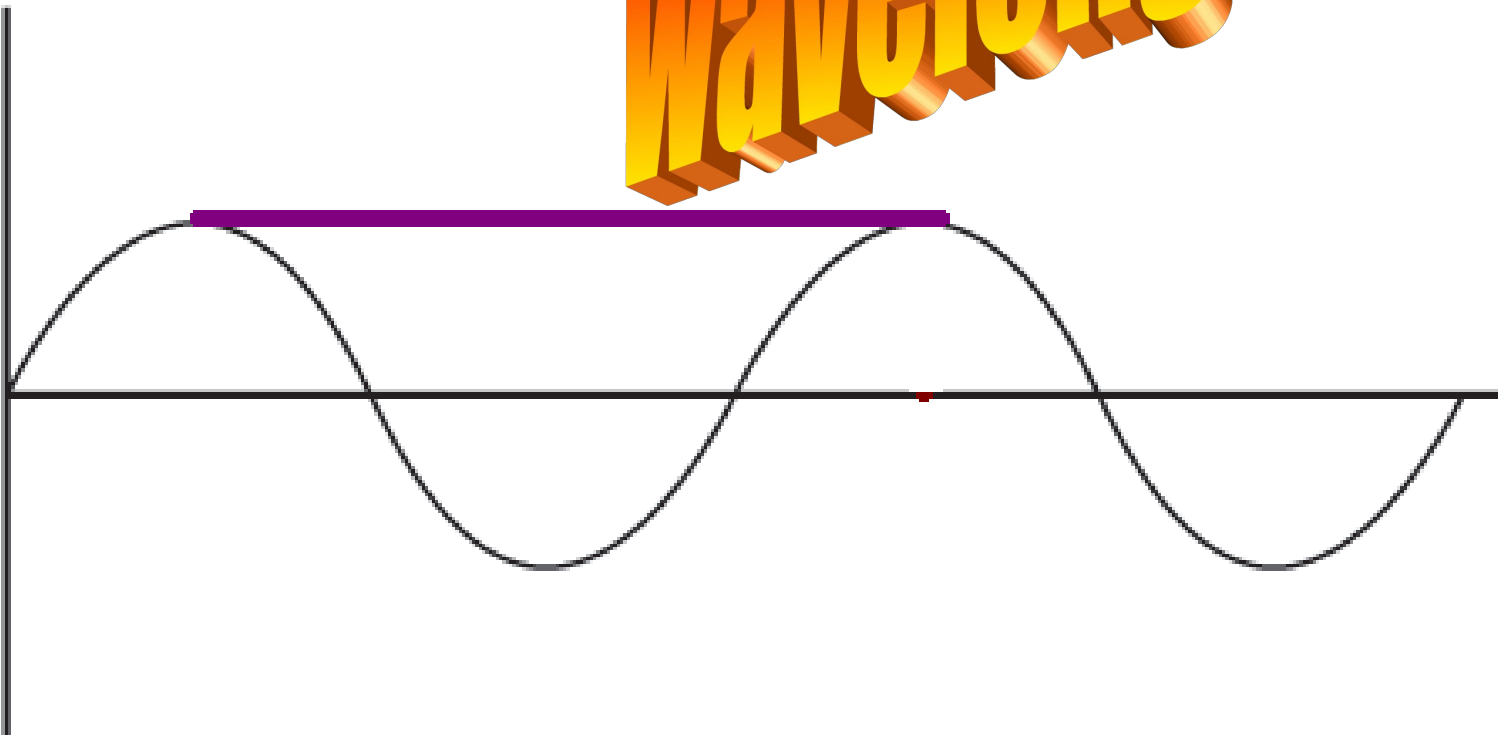
7. True or False

- Mechanical waves require a medium to travel

True

8. What is the diagram showing?

wavelength

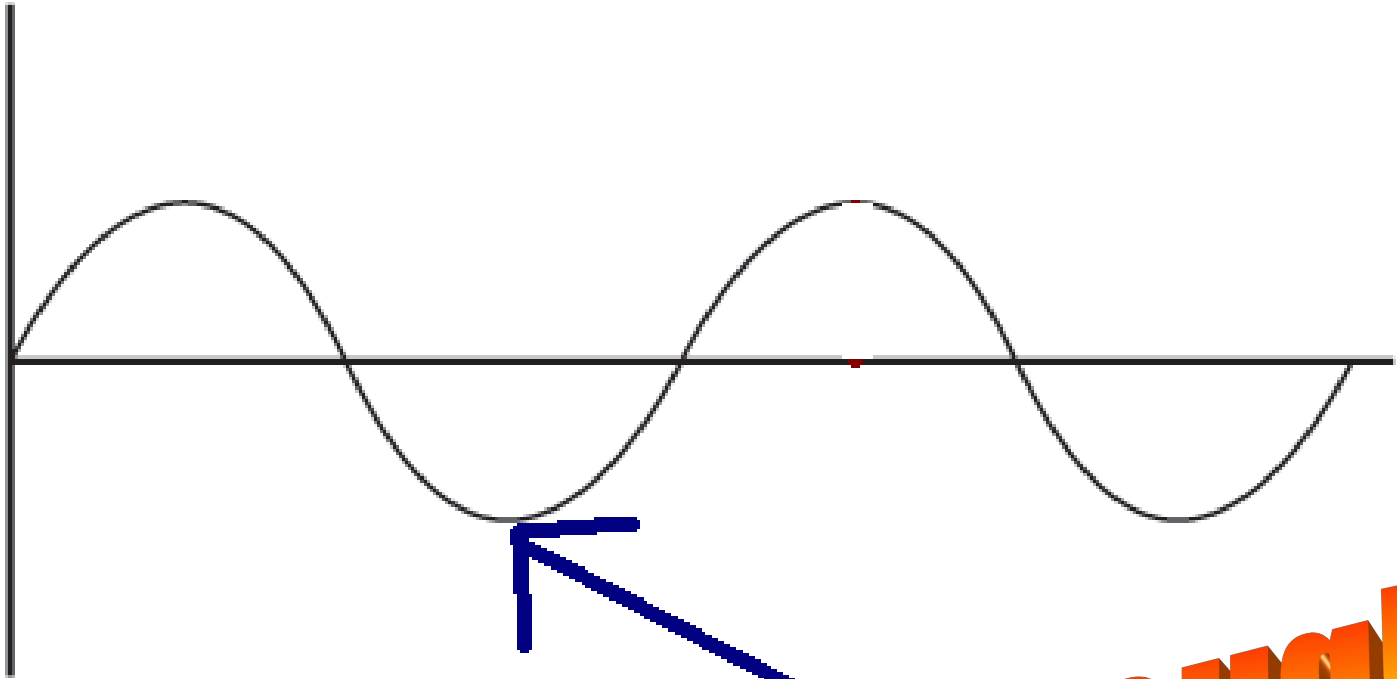


9. True or False

- Light travels faster than sound.

True

10. What is the diagram showing?



trough

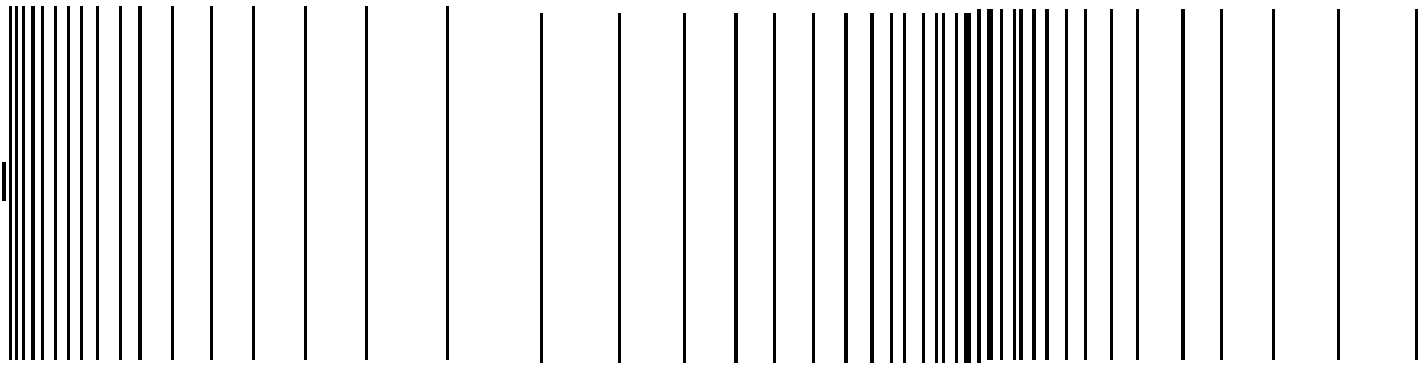


11. Short answer

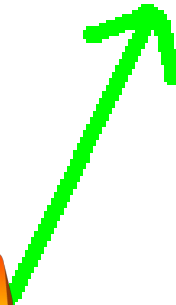
- If someone asks you to increase the amplitude, what are they asking you to do?

turn up the volume

12. What is this diagram showing.



compression

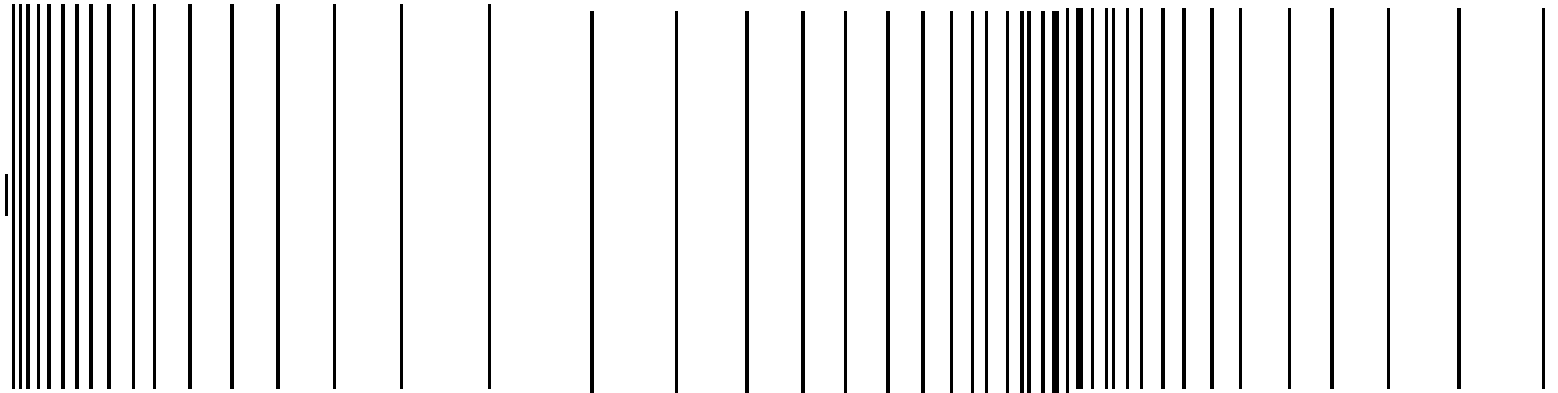


13. True or false

- Sound travels faster through steel than through air.

true

14. What is this diagram showing?



rarefaction



15. Short answer

- What kind of surface will reflect sound the best?

smooth and flat

16. True or False

- Sound can travel through a vacuum.

false

17. Fill in the blank

- When a sound wave reflects off a surface you get a(n) _____





18. True or False

- Electromagnetic waves can travel through space.

true

● ● ● | 19. Fill in the blank

- All waves transfer _____

ENERGY

20. Fill in the blank

- The change in pitch that you notice when an ambulance drive past you with the siren blaring is called the _____ effect.

doppler

21. True or False

- Sound travels faster through cold air than warm air.

False

● ● ● | 22. Which string will have the higher pitch?

a.



b.





23. True or False

- Sound waves are transverse waves.

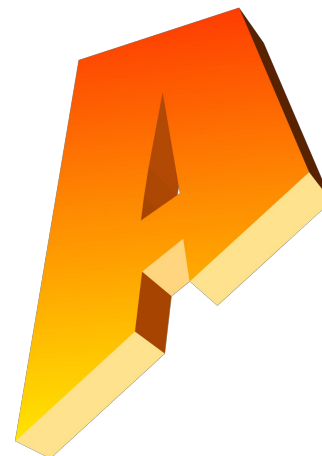
False. They are longitudinal waves.

● ● ● | 24. Which string will have a higher pitch?

a.



b.





25. Fill in the blank

- The higher the pitch, the _____ the frequency.

higher