

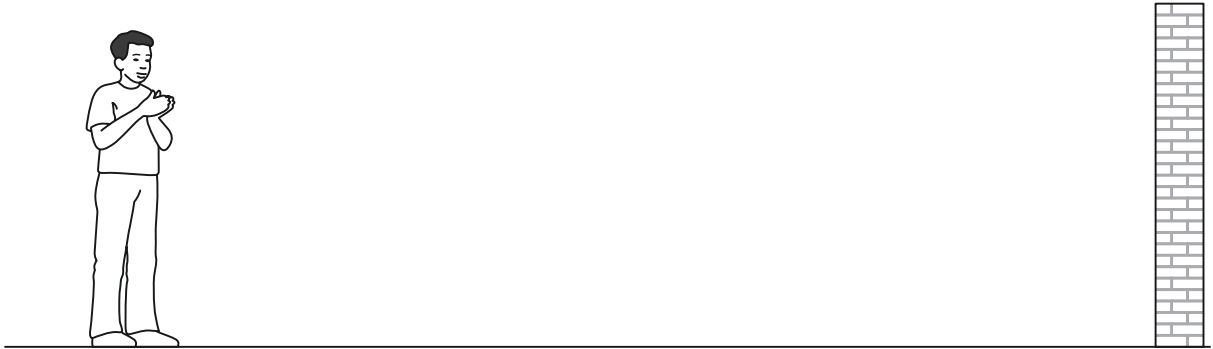


Name: ..... Form: .....

See pages 10 and 11 of *Changing sounds*

# Sound spreads out

Sound spreads quite slowly in all directions, so the farther we are from a sound, the longer it takes to reach us, and the quieter it seems.



**Q1.** On the picture, draw the path of the sound waves when the man claps his hands.

**Q2.** (i) When you throw a pebble in a pond, what shape do the ripples make?



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(ii) Where are the ripples highest?



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(iii) How does the height of the ripples change?



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**Q3.** What happens to the energy in a sound wave as the sound waves spread out?



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**Q4.** What is the name of the sound made when lightning flashes?  .....

**Q5.** (i) A sound travels in air, then in water and finally into a solid. How does its speed change?



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(ii) Far in the distance, you see a person hit a fence post with a mallet, but you do not hear any sound. After a moment, you hear the sound of the mallet hitting the fence post. Why?



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