

# Task 16

Alef lesson

#89

Relate

Science Book  
Section

6.3

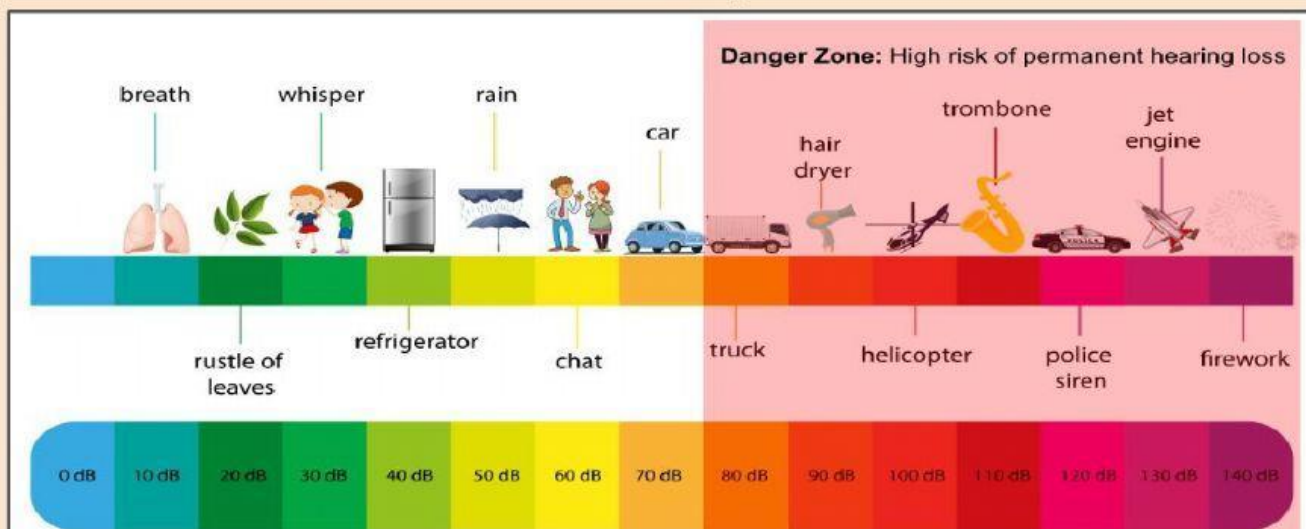
Science Book

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Sound: Measuring Sound with Decibels (dB)

FULL NAME: \_\_\_\_\_



How many decibels does  
a refrigerator make?

\_\_\_\_\_ dB

How many decibels does  
a breathing make?

\_\_\_\_\_ dB

How many decibels does  
a car make?

\_\_\_\_\_ dB

How many decibels does  
a hair dryer make?

\_\_\_\_\_ dB

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### Calculating the Intensity of a Moving Sound Wave

FULL NAME: \_\_\_\_\_

#### Question

You are sitting 3 m away from your friend who is watching a cartoon on his phone. How will the sound intensity change if your friend moves to a distance of 6 m from you?

Step 1

Step 2

Step 3

write the equation and the variables:

$$r_1 = \boxed{\phantom{00}} \text{ m}$$

$$r_2 = \boxed{\phantom{00}} \text{ m}$$

$$fraction = \left( \frac{r_1}{r_2} \right)^2$$

Step 1

Step 2

Step 3

Answer

replace the variables with given values:

$$fraction = \left( \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \right)^2$$

Step 1

Step 2

Step 3

Answer

solve the problem

$$fraction = \left( \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \right)^2 = \frac{1}{9}$$

Step 1

Step 2

Step 3

Answer

the intensity decreases to  $\frac{1}{9}$  of its original value