

**35.2** The background noise in an office has a sound pressure level of  $38dB$ . An overhead fan coil unit with a sound pressure level of  $43dB$  turns on. What is the combined sound pressure level?

- A.  $39dB$
- B.  $44dB$
- C.  $46dB$
- D.  $52dB$

Refer to the table for **Combining Two Sound Levels**. Note that when the difference between the  $dB$  levels of two sources is between 5 and 9, the number of  $dB$  to be added to the highest source is  $1dB$ .

Combine the two sources.

$$43dB + 1dB = 44dB$$

**Answer B**