Lesson 2
Studio Design and Monitors
Q and A

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1. Primary factors governing control room acoustics are: (pages 79-80)

   a. ACOUSTIC ISOLATION ~~INSOLATION~~
   b. SYMMETRY
   c. FREQUENCY BALANCE
   d. ABSORPTION
   e. REFLECTION
   f. REVERBERATION

2. In comparison, the amount of isolation between the control room and the studio should be the SAME as between the studio and outside. (page 83)

3. The small room containing two doors between the control room and the studio or exterior areas, is called a SOUND LOCK. (page 89)

4. The phenomenon that occurs when a sound reflects back and forth off a parallel surface is called STANDING WAVES. (page 98)

5. DIFFUSERS are acoustical boundaries that reflect sound back at various angles, breaking up their sound energy. (page 99)

6. Low frequency attenuation devices are known as BASS TRAP. (page 104)

7. A device that is used to analyze the acoustics of a room is called a SPECTRAL ANALYZER (page 538), and the signal that this device generates is called pink noise.

*8. To prevent any signal from being applied to a specific speaker, a CROSS OVER network is used. (page 526)

9. In ACTIVE CROSSOVER, each line level audio signal is split into various frequency bands, which is then fed into its own power amp and then the speaker. (page 528)

10. Speakers with only one crossover are called a TWO-WAY system. (page 526)

11. Monitor speakers that have an amplifier built in are called POWERED. (page 526)

12. A smaller speaker placed near the console's meter bridge is called a NEAR FIELD (OR STUDIO) monitor. (page 540)

Have a chat about what it means to have a good sounding room. Discuss at length with your mentor.