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2. Mach 2 is 2x the speed of sound.

3. $T = 10°C$
$V = ?$
$Mach = 0.93$

$V_{air} = 332 + 0.6T$
$= 332 + 0.6(10)$
$= 338\ m/s$

$V = Mach \times V_{air}$
$= (0.93)(338\ m/s)$
$= 290.54\ m/s$
$= 280\ m/s$

In km/h → $V = 290.54 \times 3.6 = 1009.944\ km/h$
$= 1.0 \times 10^3\ km/h$

4. Air → 20°C to −20°C: warmer temperature = faster
Glass, steel, water, wood: all solids, so much faster than in air (gas)

5. Sound Intensity: how strong the sound is, compared to the source

Loudness: determined by the amplitude of the wave

Decibel: unit used to measure sound