1.

a. **10 X more intense** - consistent with a 10 dBel (or 1 Bel) difference between the two sound levels.

b. **102 X more intense** - consistent with a 20 dBel (or 2 Bel) difference between the two sound levels.

c. **105 X more intense** - consistent with a 50 dBel (or 5 Bel) difference between the two sound levels.

d. **107 X more intense** - consistent with a 70 dBel (or 7 Bel) difference between the two sound levels.

e. **1011 X more intense** - consistent with a 110 dBel (or 11 Bel) difference between the two sound levels.

2.

Λ = 345 / 256 = 1.35

Answer: **1.35 meters** (rounded)