

5 FM

① convert to Hz  
FM - 1 Million  
AM - 1 thousand

4 AM

AM

810 AM      810,000 Hz

$$810 \times 1,000 = 810,000 \text{ Hz} = \text{frequency}$$

$$\lambda = \frac{c}{f}$$

$$\lambda = \frac{300,000}{810,000} = 0.37 \text{ km}$$

KHD bdcm

$$0.37 \text{ km} = \underline{370 \text{ m}}$$

FM

99.7 FM      99,700,000 Hz

$$99.7 \times 1,000,000 = 99,700,000 \text{ Hz}$$

$$\lambda = \frac{c}{f}$$

$$\lambda = \frac{300,000}{99,700,000} = 0.003 \text{ km}$$

KHD bdcm

$$0.003 \text{ km} = \underline{3 \text{ m}}$$