Wavelength range (nm)	***Part of the EM spectrum***
5×10^7 and longer	*radio*
5×10^5 to 5×10^7	*microwave*
700 to 5×10^5	*infrared (IR)*
400 to 700	*visible**
10 to 400	*ultraviolet(uv)*
10 and below	*gamma or x-ray*

****Wavelength (nm)***	***Color***
650 – 700	*red*
590 – 650	*orange*
580 – 590	*yellow*
490 – 580	*green*
420 – 490	*blue*
400 – 420	*violet*

2. For each problem below, fill in the blanks and show math: Convert the given wavelength from meters to nanometers (or vice versa) and determine what type of radiation it is. (If it's visible, also state the color of light.)

a. EM radiation with a wavelength of 4.8×10^{-7} meters.

λ = _____m

λ = _____nm

part of spectrum:_____

b. EM radiation with a wavelength of 95 nanometers.

λ = _____m

λ = _____nm

part of spectrum:_____

c. EM radiation with a wavelength of 3.6×10^{-6} meters.

λ = _____m

λ = _____nm

part of spectrum:_____

d. EM radiation with a wavelength of 2.4 meters.

λ = _____m

λ = _____nm

part of spectrum:_____

e. EM radiation with a wavelength of 692 nanometers

λ = _____m

λ = _____nm

part of spectrum:_____

f. EM radiation with a wavelength of 5.5×10^{-10} m

λ = _____m

λ = _____nm

part of spectrum:_____

g. EM radiation with a wavelength of 6.6×10^{6} nm

λ = _____m

λ = _____nm

part of spectrum:_____

1. Notes: Electromagnetic Radiation!