

Refractive Power of Lens

$$\text{Diopter} = 1/f$$

where f is focal length of lens in meters.

Example:

- My prescription reads -6.5 diopters
- $f_{\text{lens}} = -1/6.5 = -0.154 \text{ m} = -15.4 \text{ cm}$ (a diverging lens)
- $d_{\text{far}} = 15.4 \text{ cm}$ (!)

$$f_{\text{lens}} = -d_{\text{far}}$$