

Item 4

A magnifying glass with a focal length of 9.7 cm is used to read print placed at a distance of 8.2 cm .

Part A

Calculate the position of the image. Follow the sign conventions.

Express your answer using two significant figures and include the appropriate units.

$$\frac{1}{d_o} + \frac{1}{d_i} = \frac{1}{f} \rightarrow d_i = \frac{f d_o}{d_o - f} = \frac{(9.7 \text{ cm})(8.2 \text{ cm})}{8.2 - 9.7}$$
$$d_i = \boxed{-53 \text{ cm}}$$

Part B

Calculate the angular magnification.

Express your answer using two significant figures.

$$M = \frac{N}{d_o} = \frac{25 \text{ cm}}{8.2 \text{ cm}} = \boxed{3.0 \times}$$

Item 5

A magnifying glass is rated at $3.5 \times$ for a normal eye that is relaxed.

Part A

What would be the magnification of this lens for a relaxed eye whose near point is 65 cm ?

Express your answer using two significant figures.

$$M = \frac{N}{f} \rightarrow f = \frac{N}{M} = \frac{25 \text{ cm}}{3.5} = 7.14 \text{ cm}$$

$$M_i = \frac{N_i}{f} = \frac{(65 \text{ cm})}{7.14 \text{ cm}} = \boxed{9.1 \times}$$

Part B

What would be the magnification of this lens for a relaxed eye whose near point is 17 cm ?

Express your answer using two significant figures.

Mastering Physics Solutions Chapter 15

Lingjun Ying



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