

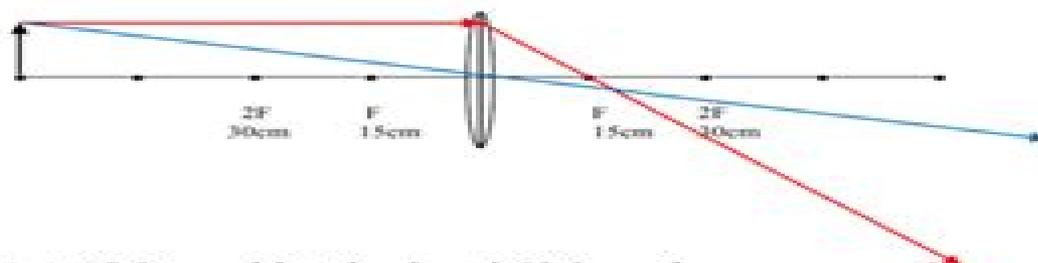
# Convex Lenses Practice Worksheet

Name \_\_\_\_\_

1) An object is placed 8 cm in front of converging lens. A real image is produced at 12 cm. Find the focal distance of the lens.

Diagram: (Given + Unknowns)	Equation: $\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$
$f = ??? \text{ cm}$	Substitute: $\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$
$d_i = 12 \text{ cm}$	$\frac{1}{f} = 0.08333 + .125$
$d_o = 8 \text{ cm}$	$\frac{1}{f} = .20833 \text{ (DO A SWITCHAROO)}$
	$\frac{1}{.20833} = f$
	Solve: $f = 4.8 \text{ cm}$

2a) A 15.0 cm object is placed 60.0 cm from a convex lens, which has a focal length of 15.0 cm. Draw a ray diagram and use the information from the ray diagram to fill in the box.



Type of Image	<b>REAL</b>
Orientation of Image	<b>INVERTED</b>
Size of Image	<b>SMALLER</b>
Image Distance	<b>close to 20 cm</b>

2b) A 15.0 cm object is placed 60.0 cm from a convex lens, which has a focal length of 15.0 cm. Use the thin lens equation to find the distance of the image.

Diagram: (Given + Unknowns)	Equation: $\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$
$f = 15 \text{ cm}$	Sub $\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$
$d_i = ??? \text{ cm}$	$.0667 = \frac{1}{d_i} + .01667 \text{ (subtract .01667)}$
$d_o = 60 \text{ cm}$	$.0500 = \frac{1}{d_i} \text{ (DO A SWITCHAROO)}$
	$d_i = \frac{1}{.0500}$
	Solve: $d_i = 20 \text{ cm}$

# Lens Practice Problems

**George P. Elmstrom, Harold Kohn**



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