

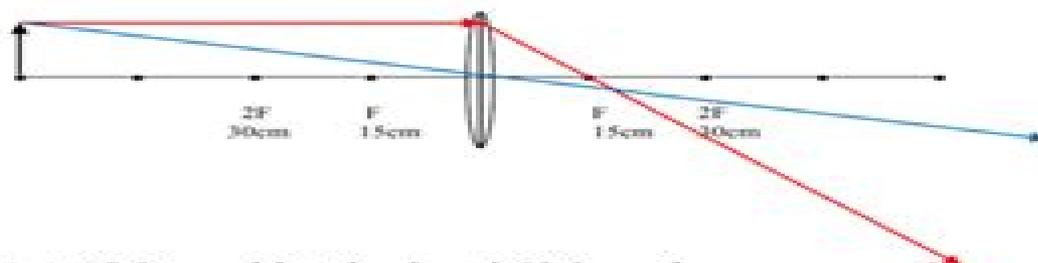
Convex Lenses Practice Worksheet

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 REAL
Orientation of Image INVERTED
Size of Image SMALLER
Image Distance close to 20 cm

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

RC Schank



Lens Practice Problems:

Unveiling the Magic of Words: A Report on "**Lens Practice Problems**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Lens Practice Problems**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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