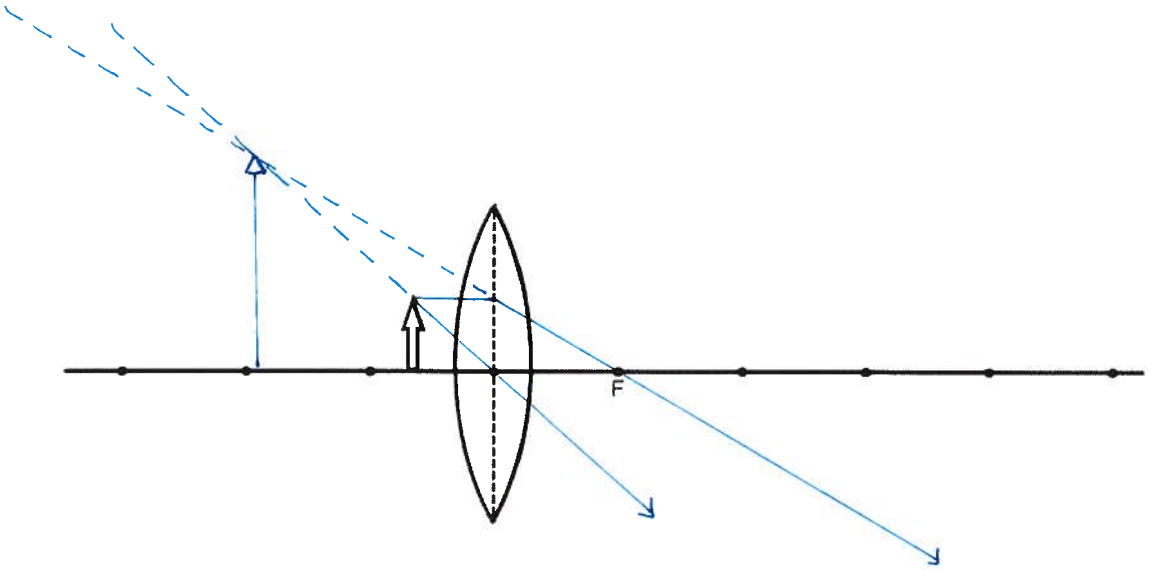
KEY

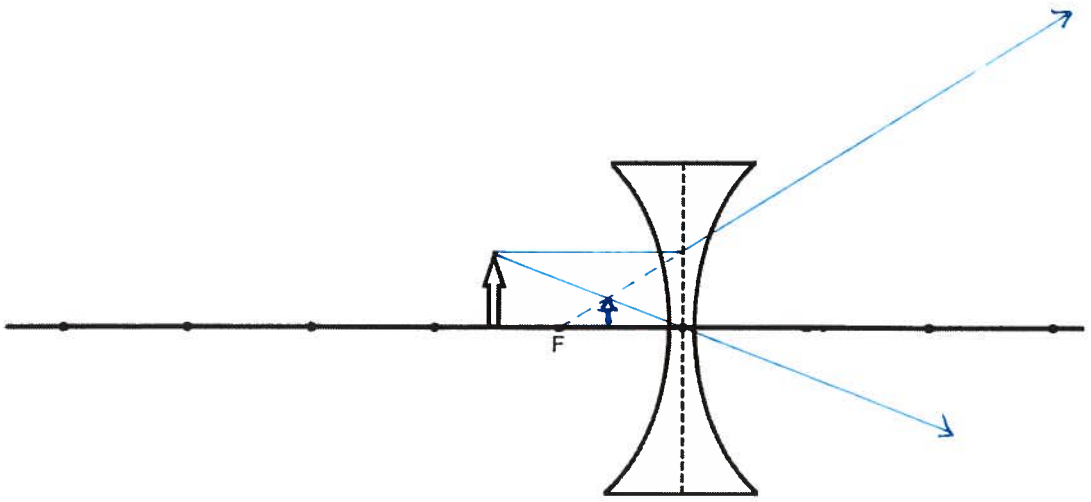
First Name:_____ Last Name:_____

L07 - Formative Quiz – Refraction Lenses

Q1: Draw a ray diagram for the following converging lens. *(1 mark)*



Q2: Draw a ray diagram for the following diverging lens. *(1 mark)*



FLIP THE PAGE TO CONTINUE

KEY

Use the following information to answer Q3 to Q4.

A 3cm high object is placed 8cm from a converging lens with a focal length of 5cm.

Image Characteristics

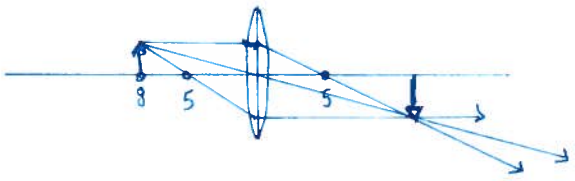
1 – Real	3 – Erect	5 – Enlarged
2 – Virtual	4 – Inverted	6 – Diminished

Q3: Using the **Image Characteristics** above, the image can best be described as:

Type: 1 Attitude: 4 Magnification: 5

*(Record your **three-digit** answer in the numerical response boxes below.)*

1	4	5	



Q4: What is the position of the image, in centimeters?

*(Record your **three-digit** answer in the numerical response boxes below.)*

1	3	.	3

$$\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$$

$$\frac{1}{5} = \frac{1}{8} + \frac{1}{d_i}$$

$$\frac{1}{d_i} = 0.075$$

$$d_i = 13.\overline{3}\ cm$$

MARKING:

Beginning	0-1
Progressing	2
Competent	3
Exemplary	4