

$$(mag_1) (FOV_1) = (mag_2) (FOV_2)$$

Name/Period: \_\_\_\_\_

Date: \_\_\_\_\_

### FIELD OF VIEW PRACTICE

1. The field of view diameter under 100x is 1640  $\mu\text{m}$ . What is the size of the diameter of the field of view at 400x?

$$\frac{(100x) (1640)}{400x} = \frac{(400x) (d)}{400x}$$

$$d = 410 \mu\text{m}$$

2. The diameter of the field of view at 100x is 2700  $\mu\text{m}$ . What is the diameter of the field of view at 300x?

$$\frac{(100x) (2700)}{300x} = \frac{(300x) (d)}{300x}$$

$$d = 900 \mu\text{m}$$

3. The field of view diameter under 400x is 640  $\mu\text{m}$ . What is the size of the diameter of the field of view at 40x?

$$\frac{(400x) (640)}{40} = \frac{(40x) (d)}{40}$$

$$d = 6400 \mu\text{m}$$

4. The field of view diameter under 50x is 35 mm. What is the size of the diameter of the field of view at 500x?

$$\frac{(50) (.35)}{500x} = \frac{(500x) (D)}{500x}$$

$$D = .035$$