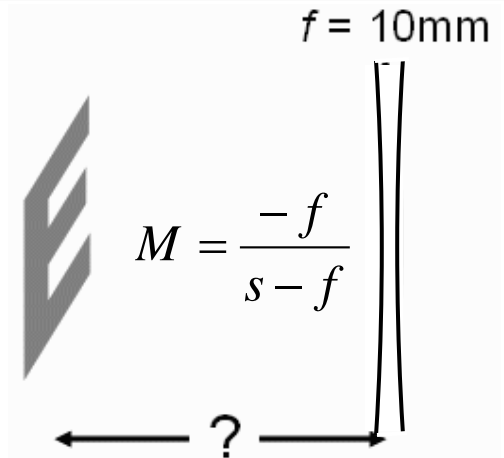


Follow Up



Suppose we replace the converging lens with a diverging lens with focal length of 10mm.

What is the magnification if we place the object at $s = 8\text{mm}$?



A) $M = \frac{1}{2}$

B) $M = 5$

C) $M = \frac{3}{8}$

D) $M = \frac{5}{9}$

E) $M = \frac{4}{5}$

EQUATIONS

$$M = \frac{-f}{s - f}$$
$$s = 8\text{mm}$$
$$f = -10\text{mm}$$

→ $M = -\frac{-10}{8 - (-10)} = \frac{10}{18} = \frac{5}{9}$

PICTURES

