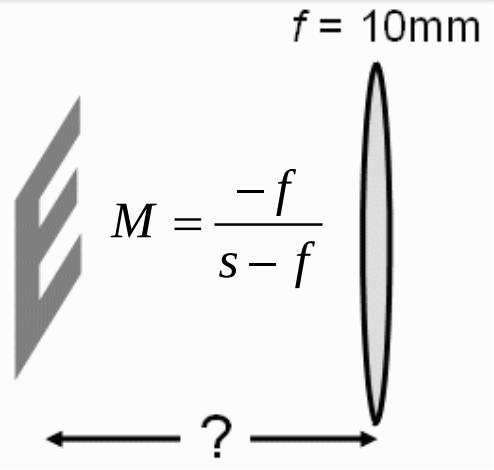
A magnifying glass is used to read the fine print on a document. The focal length of the lens is 10mm.

At what distance from the lens must the document be placed in order to obtain an image magnified by a factor of 5 that is not inverted?



A) 1.7mm B) 6mm **C) 8mm** D) 40 mm E) 60 mm

$$M = +5$$

$$f = +10\,mm$$

$$M = \frac{-f}{s-f} \rightarrow s = f\frac{(M-1)}{M}$$

$$\rightarrow s = \frac{4}{5}f = 8\,mm$$