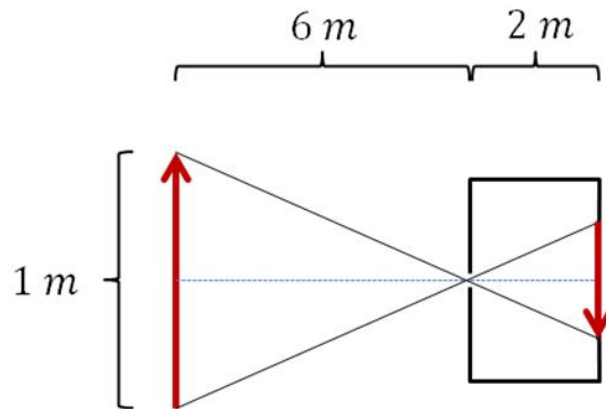


Answer on Question #82930, Physics / Optics

Question. A camera obscura used by a portrait painter is located 6 m from a child who stands 1 m tall. How tall is her image if the back of the camera obscura is 2 m away?

Solution.



$$\frac{1/2}{6} = \frac{x/2}{2} \rightarrow \frac{1}{12} = \frac{x}{4} \rightarrow x = \frac{1}{3} \text{ m.}$$

Answer . $x = \frac{1}{3} \text{ m.}$

Answer provided by <https://www.AssignmentExpert.com>