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Next, from a free-body diagram of the upper handle, the equations of equilibrium give

$$\rightarrow \Sigma F_x = 0: \quad B_x = 0$$

$$\uparrow \Sigma F_y = 0: \quad B_y - 5 - D = 0$$

$$\curvearrowright \Sigma M_B = 0: \quad 70(5) - 40D = 0$$

$$\mathbf{D = 8.75\ N \downarrow \dots\dots\dots Ans.}$$

$$B_x = 0\ \text{N} \qquad B_y = 13.75\ \text{N}$$

$$\mathbf{B = 13.75\ N \downarrow (on\ the\ pin) \dots\dots\dots Ans.}$$

