





A hand-drawn diagram showing two stick figures standing on a rectangular platform. The platform is labeled with dimensions: 40" for the length, 18in for the width, and 4" for the height. Above the figures, a heart symbol is drawn, and the text "Together 310lb" is written. To the right of the platform, the weight "80 lb" is written.

Together 310lb

40" 18in 4" 80 lb

What is the pressure?

$$\text{Pressure} = \frac{\text{Force}}{\text{area}} = \frac{310\text{lb} + 80\text{lb}}{40\text{in} \times 18\text{in}}$$
$$= \frac{390\text{lb}}{720\text{in}^2} = \boxed{\frac{.54\text{lb}}{\text{in}^2}}$$