

# Calculators!

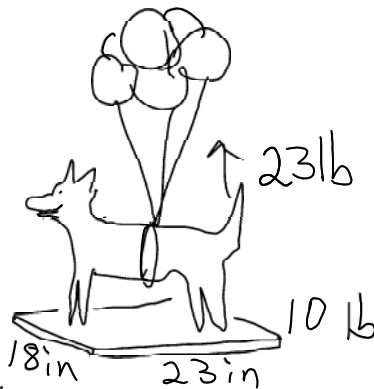
$$\text{Pressure} = \frac{\text{Force}}{\text{area}} = \frac{175 + 15 \text{ lb}}{14 \text{ in} \times 11 \text{ in}}$$

$$\frac{190 \text{ lb}}{154 \text{ in}^2} = 1.23 \frac{\text{lb}}{\text{in}^2}$$

$$\frac{190 \text{ lb}}{14 \times 11} \quad 190 \div (14 \times 11) =$$

A dog = 110 lb

Circus Dog



Find pressure  
under wood.

$$\text{pressure} = \frac{\text{Force}}{\text{area}} = \frac{110 - 23 + 10 \text{ lb}}{18 \text{ in} \times 23 \text{ in}}$$

$$= \frac{97 \text{ lb}}{414 \text{ in}^2}$$

$$= \boxed{.23 \frac{\text{lb}}{\text{in}^2}}$$

A performer wears heels that have

$.2 \times .3$  in dimensions. The



performer is a big guy at 340 lb.

What pressure under 1 heel?

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}} = \frac{340 \text{ lb}}{.2 \times .3} =$$

$$\frac{5666.6666}{5666.67 \frac{\text{lb}}{\text{in}^2}}$$