

SOME SIMPLE MATH

$$\text{TIRE PRESSURE} : 100 \frac{\text{lbs}}{\text{in}^2}$$

$$\text{WEIGHT ON TIRE} : 50 \text{ lbs}$$

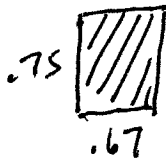
So \rightarrow FOOTPRINT OF

$$\text{TIRE} : \frac{50 \text{ lbs}}{100 \frac{\text{lbs}}{\text{in}^2}}$$

$$= \underline{\underline{0.5 \text{ in}^2}} \quad (\text{area of footprint})$$

If "skinny tire" is 0.75 in wide

then its footprint is;



$$\text{check: } .75 \times .67 = .5$$

If "fat tire" is 1.25 in wide

then its footprint is:



$$\text{check: } 1.25 \times .4 = .5$$