

3. After finding all the possible chicken pen dimensions, **which one is the best one for his chickens and why?** (Think about making the most space for happy chickens to roam around).

I would say that _____ is best because
dimensions

4. **Extra:** If instead of feet, Mr. Toledo's were to construct a chicken pen with the dimensions of 2 yards by 3 yards, **would this chicken pen have the same area floor as the one described above?** Show your work.

$$\begin{array}{l} 3 \text{ ft} = 1 \text{ yd} \\ 2 \text{ yds} \times 3 = 6 \text{ ft} \\ 3 \text{ yds} \times 3 = 9 \text{ ft} \\ 6 \times 9 = 54 \text{ sq ft.} \end{array} \quad \begin{array}{l} \text{AREA} \\ 1 \times 48 = 48 \text{ sq ft.} \\ 2 \times 24 = 48 \text{ sq ft.} \\ 4 \times 12 = 48 \text{ sq ft.} \\ 6 \times 8 = 48 \text{ sq ft.} \end{array}$$

$$\text{No. } 2 \text{ yds} \times 3 \text{ yds} = 54 \text{ sq ft.}$$

all the others have an area of 48 sq ft.