Name: _____   **Class:** _____

Intricacies of a Volleyball Court
GRADES 6-8

Try calculating the following to determine the width of a scaled down court.

1. $$\frac{0.25 \text{ inch } (¼)}{1 \text{ foot}} = \frac{x \text{ inches}}{29.6 \text{ feet}}$$

2. $$\frac{0.5 \text{ inch } (½)}{1 \text{ foot}} = \frac{x \text{ inches}}{29.6 \text{ feet}}$$

3. $$\frac{0.125 \text{ inch } (⅛)}{1 \text{ foot}} = \frac{x \text{ inches}}{29.6 \text{ feet}}$$

Which of the three scales would have a reasonable end width? Why?

Name: _____   **Class:** _____

Intricacies of a Volleyball Court

GRADES 6-8

Try calculating the following to determine the length of a scaled down court.

1. $\dfrac{0.25 \text{ inch } (\frac{1}{4})}{1 \text{ yard}} = \dfrac{x \text{ inches}}{59 \text{ feet}}$

2. $\dfrac{0.5 \text{ inch } (\frac{1}{2})}{1 \text{ yard}} = \dfrac{x \text{ inches}}{59 \text{ feet}}$

3. $\dfrac{0.125 \text{ inch } (\frac{1}{8})}{1 \text{ yard}} = \dfrac{x \text{ inches}}{59 \text{ feet}}$

Which of the three scales would have a reasonable end length? Why?

Coaches have clipboards that are 8.5 x 11 inches. What scale would you use to ensure the court fits on a single sheet of paper?

STEM sports
science • technology
engineering • math • sports