

Name: _____

Class: _____

Intricacies of a Football Field

GRADES 6-8

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

1.
$$\frac{0.25 \text{ inch (1/4)}}{1 \text{ yard}} = \frac{x \text{ inches}}{120 \text{ yards}}$$

2.
$$\frac{0.5 \text{ inch (1/2)}}{1 \text{ yard}} = \frac{x \text{ inches}}{120 \text{ yards}}$$

3.
$$\frac{0.125 \text{ inch (1/8)}}{1 \text{ yard}} = \frac{x \text{ inches}}{120 \text{ yards}}$$

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

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

$$4. \quad \frac{0.25 \text{ inch (1/4)}}{1 \text{ yard}} = \frac{x \text{ inches}}{57.3 \text{ yards}}$$

$$5. \quad \frac{0.5 \text{ inch (1/2)}}{1 \text{ yard}} = \frac{x \text{ inches}}{57.3 \text{ yards}}$$

$$6. \quad \frac{0.125 \text{ inch (1/8)}}{1 \text{ yard}} = \frac{x \text{ inches}}{57.3 \text{ yards}}$$

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

Coaches have clipboards that are 8.5 x 11 inches. What scale would you need to ensure the field fits on a single sheet of paper? *Don't forget that a football field has an additional 10 yards in each end zone.*