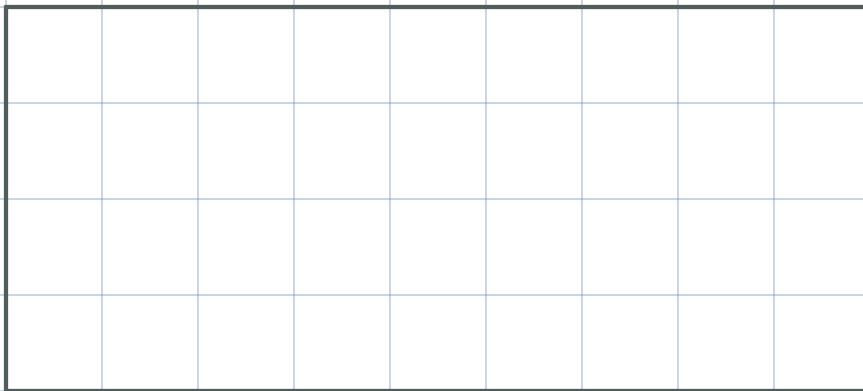


12.6 Area of Rectangles

Area is the number of square units or units^2

Area is flat. 2 Dimensional or 2D



■ = 1unit^2

4 units

9 units

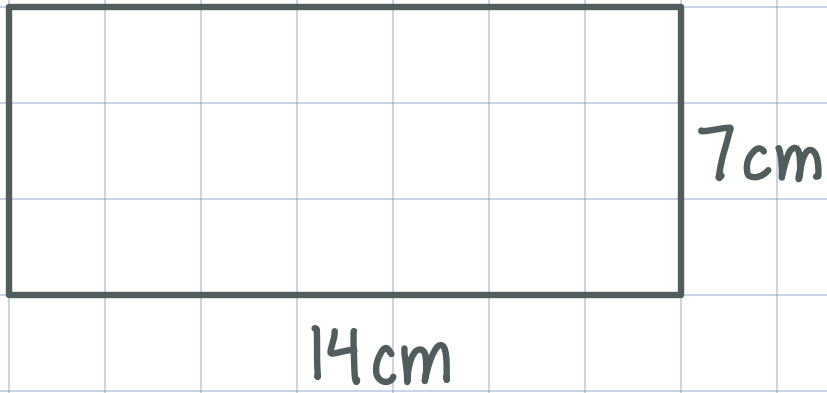
Commutative

$$A = l \cdot w$$

→ $A = 4 \cdot 9$

$$A = 36\text{units}^2$$

↑
units²
not
36²



$$A = l \cdot w$$

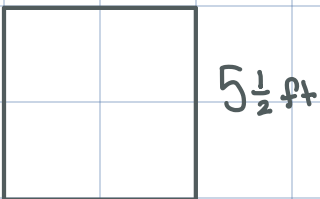
$$A = 7 \cdot 14$$

$$A = 98 \text{ cm}^2$$

↑
unit

$$\begin{array}{r} 14 \\ \times 7 \\ \hline 98 \end{array}$$

→ work off to side
not under formula



$$A = l \cdot w$$

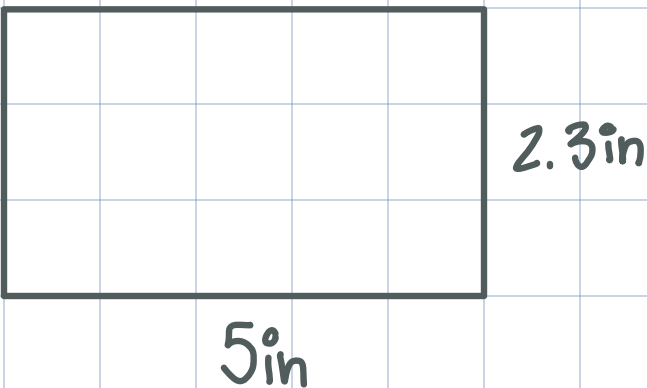
$$A = 5\frac{1}{2} \cdot 5\frac{1}{2}$$

$$A = 3\frac{1}{4} \text{ ft}^2$$

$$5\frac{1}{2} \times 5\frac{1}{2}$$

$$\frac{11}{2} \cdot \frac{11}{2} = \frac{121}{4} = 31$$

$$\begin{array}{r} 4 \overline{)121} \\ \underline{10} \\ 21 \\ \underline{20} \\ 1 \\ \underline{0} \\ 0 \end{array}$$

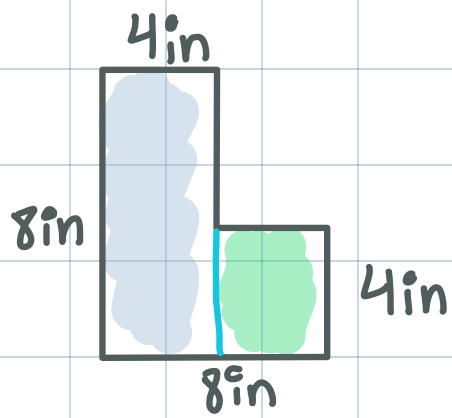


$$A = l \cdot w$$

$$A = 2.3 \cdot 5$$

$$A = 11.5 \text{ in}^2$$

$$\begin{array}{r} 2.3 \\ \times 5 \\ \hline 11.5 \end{array}$$



$$A = l \cdot w$$

$$A = 4 \cdot 8$$

$$A = 32 \text{ in}^2$$

$$A = l \cdot w$$

$$A = 4 \cdot 4$$

$$A = 16 \text{ in}^2$$

$$A = 32 + 16 = 48 \text{ in}^2$$