

2 - 4

**Area of Parallelograms
and Triangles**

area: amount of surface enclosed

Rectangle

$$A = l \cdot w$$

$$A = b \cdot h$$

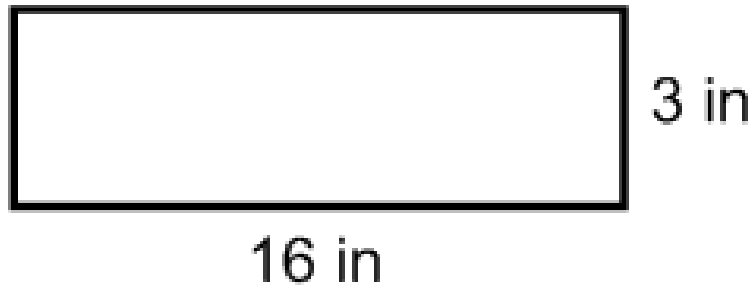
Square

$$A = l \cdot w$$

$$A = b \cdot h$$

$$A = s^2$$

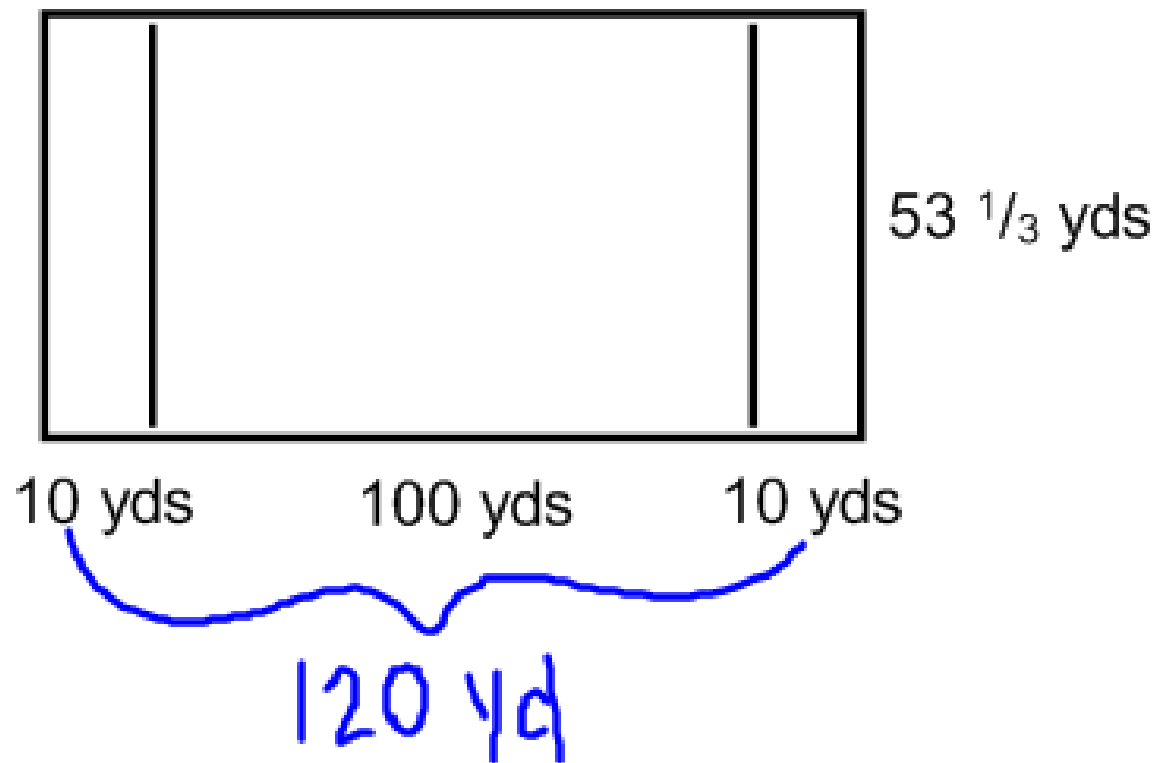
Ex:



$$A = 16 \cdot 3$$

$$A = 48 \text{ in}^2$$

Ex: How many square yards of sod are needed to cover a professional football field?

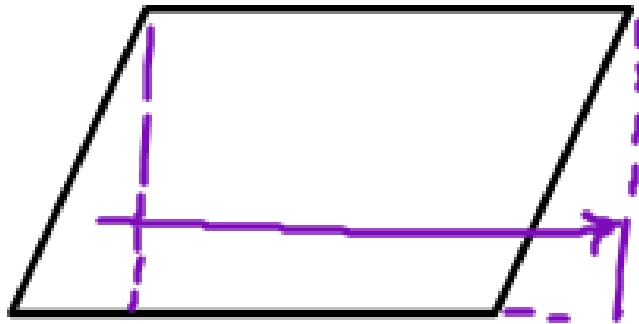


$$A = 120 \cdot 53 \frac{1}{3}$$

$$A = 6,400 \text{ yd}^2$$

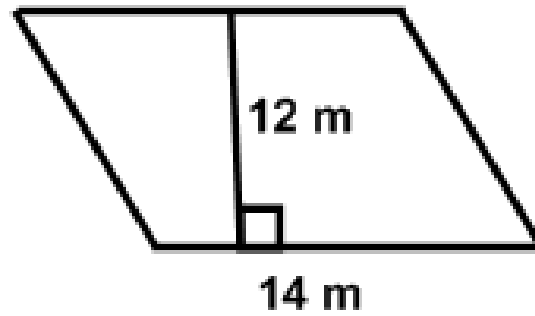
Parallelogram

$$A = b \cdot h$$





Ex:



$$A = 14 \cdot 12$$

$$A = 168 \text{ m}^2$$

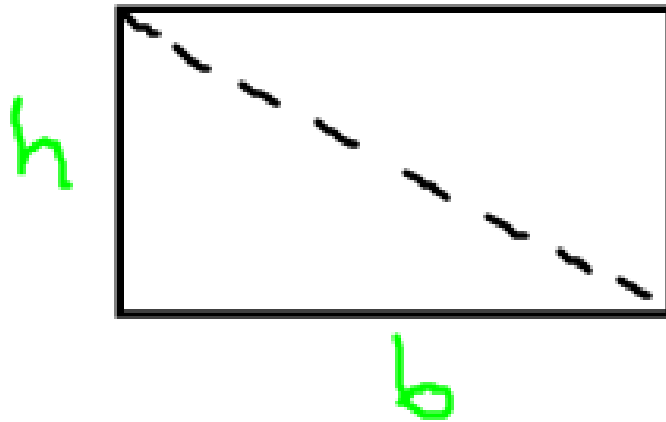
Ex: area of a parallelogram with height of 6.5 ft and base of 13 ft

$$A = 13 \cdot 6.5$$

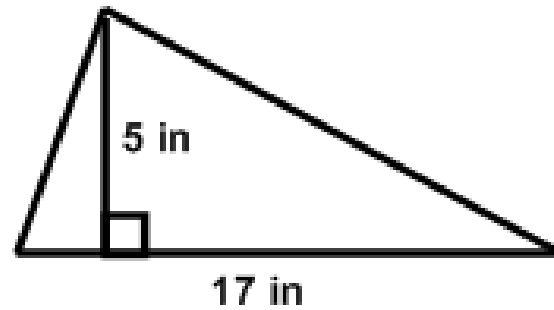
$$A = 84.5 \text{ ft}^2$$

Triangle

$$A = \frac{1}{2} b \cdot h$$



Ex:



$$A = \frac{1}{2} b \cdot h$$

$$A = \frac{1}{2} \cdot 17 \cdot 5$$

$$A = 42.5 \text{ in}^2$$

**Ex: area of a triangle whose
height is 11 m and base is 8 m**

$$A = \frac{1}{2} \cdot 8 \cdot 11$$

$$A = 44 \text{ m}^2$$



Homework:

p. 68 #10-17, 23-26