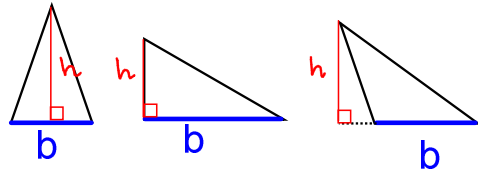


Area of Triangles and Quadrilaterals

Area of a Triangle

$$A = (1/2)(b)(h) \text{ or } A = (bh)/2$$

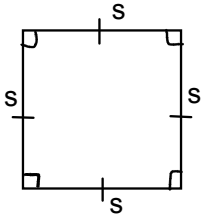
b=base h=height



Area of Quadrilaterals: Squares

$$A = s^2$$

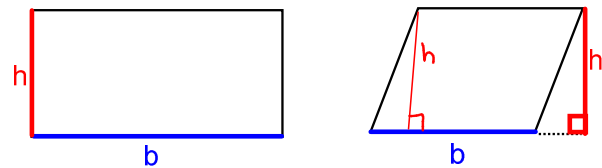
s=side



Area of Quadrilaterals: Rectangles and Parallelograms

$$A = bh$$

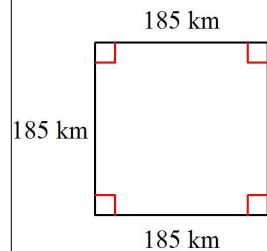
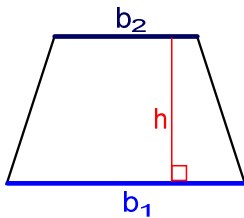
b=base h=height



Area of Quadrilaterals: Trapezoids

$$A = [(b_1 + b_2)(h)]/2$$

$$A = \frac{(b_1 + b_2)(h)}{2}$$



$$A = (185)^2$$

$$A = 34,225 \text{ km}^2$$

206.4 in

33 ft = 396 in

468 in

$$A = \frac{(206.4 + 468)(396)}{2}$$

$$A = 133,351.2 \text{ in}^2$$

$33 \text{ ft} \cdot \frac{12 \text{ in}}{1 \text{ ft}} = 396 \text{ in}$

112.8 cm

89.9 cm

740 mm
74 cm

$$740 \text{ mm} \cdot \frac{1 \text{ cm}}{10 \text{ mm}}$$

$$= \frac{740}{10} = 74 \text{ cm}$$

$$A = (89.9)(74)$$

$$A = 6,652.6 \text{ cm}^2$$

44 yd
132 ft

93.9 ft

$$44 \text{ yd} \cdot \frac{3 \text{ ft}}{1 \text{ yd}}$$

$$= 132 \text{ ft}$$

$$A = \frac{1}{2}(132)(93.9)$$

$$A = 6,197.4 \text{ ft}^2$$

8500 cm

11500 cm

55.9 m
5590 cm

$$55.9 \text{ m} \cdot \frac{100 \text{ cm}}{1 \text{ m}}$$

$$= 5590 \text{ cm}$$

$$A = \frac{1}{2}(8500)(5590)$$

$$A = 23,757,500 \text{ cm}^2$$