

10-1 Definitions, Area, Perimeter

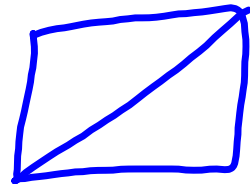
Objectives:

I can calculate the area and perimeter of triangles.

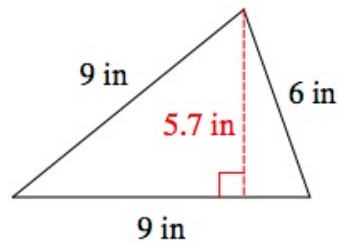
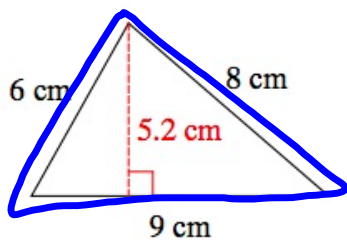
Area vs Perimeter

Area: $A = \frac{bH}{2}$ $A = \frac{LW}{2}$

Perimeter: $P = S_1 + S_2 + S_3$



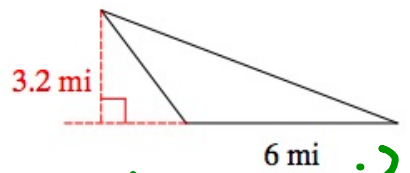
Find the Area and Perimeter



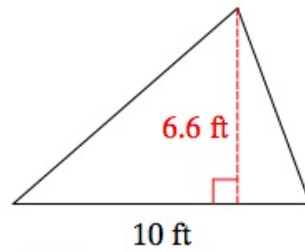
$$A = \frac{9 \cdot (5.2)}{2} = 23.4 \text{ cm}^2 \quad P = 24 \text{ in}$$

$$P = 6 + 8 + 9 = 23 \text{ cm} \quad A = 25.6 \text{ in}^2$$

Find the Area of the triangles:

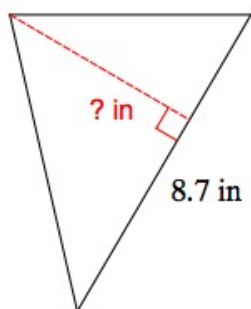


$$9.6 \text{ mi}^2$$

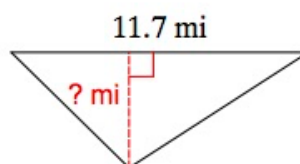


$$33 \text{ ft}^2$$

Find the missing measurement:



Area = 23.1 in²



Area = 26.9 mi²

$$23.1 = \frac{8.7(x)}{2}$$

$$\frac{23.1}{4.35} = \frac{4.35x}{4.35}$$

$$x = 5.31 \text{ in}$$