Pythagorean's Theorem and Perimeter

Length of side a; $\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $a = 5$

Length of side b; $\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $b = 6$

Length of the hypotenuse

$$c = \sqrt{(a)^2 + (b)^2} = \sqrt{(5)^2 + (6)^2}$$

$$\therefore c = 7.81$$

Perimeter of the triangle

$$P = a + b + c = 5 + 6 + 7.81$$

$$\therefore P = 18.81$$