

**Task:**

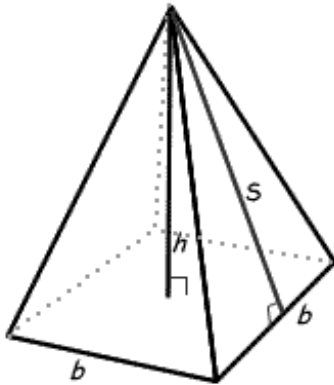
Surface area of a regular square pyramid with the slant height of 7 and base perimeter of 10.

**Solution:**

**Square Based Pyramid**

Surface Area

$$A = 2bs + b^2$$



Perimeter of square whose four sides have length  $b$  is  $P = 4b$ , hence we obtain  $b = \frac{P}{4}$ .

$$b = \frac{10}{4} = 2.5$$

Surface Area is determined by  $A = 2bs + b^2$ , where  $s$  is slant height.

$$A = 2 \cdot 2.5 \cdot 7 + 2.5^2 = 35 + 6.25 = 41.25$$

**Answer:** 41.25 square units.