Objective: Students will be able to find the area squares, rectangles, and triangles.


Find the area of the following shapes


## Area on the Coordinate Plane




In square $A B C D$, the coordinate of $A(4,6)$ and $B(7,10)$. Find the area of the square.


In the coordinate plane, the vertices of $\boldsymbol{\Delta}$ CAT are $C(-1,0)$, $A(2,6)$ and $T(6,4)$. Find the area of $\boldsymbol{\Delta C A T}$. Round your answer to the nearest tenth.
Shape:_ Shape:

The base of the Great Pyramid in Egypt is a square whose sides measure about 752 ft . Estimate the area in acres of the base of the Great Pyramid to the nearest hundredth. (Hint: 1 acre $=43,560 \mathrm{ft}^{2}$.)



Figure $D E F G$ has vertices $D(-3,1), E(1,3), F(2,1)$ and $G(-2,-1)$. Find the area of DEFG.


Square MATH has points $M(1,-2)$ and $A(3,6)$.
Find the area of square MATH.

$\Delta \mathrm{PQR}$ has coordinates $P(1,3), Q(5,6)$ and $R(4,-1)$. Find the area of $\triangle P Q R$.

