We have a triangle with base 36 cms and height 12 cms . So

$$
S_{\text {triangle }}=12 * \frac{36}{2}=216\left(\mathrm{cms}^{2}\right)
$$

Let 1-st dimension of a rectangle $=x$, then second dimension $=\frac{36}{2}-x$
Then

$$
S=x\left(\frac{36+12}{2}-x\right)=x(24-x)
$$

So find maximum area:

$$
S^{\prime}=0
$$

Then

$$
x=6
$$

Other dimension:

$$
24-x=24-6=18
$$

Answer: 18 by 6.

