

Main equations

$$a = \frac{N}{A} \tag{1}$$

The equation $\sigma = ma$
follows easily.
Let's try with another a ...

Nomenclature

σ	The total mass of angels per unit area
A	The area of the needle point
a	The area of the needle point
a	The number of angels per unit area
m	The mass of one angel
N	The number of angels per needle point

There is a problem with the a !!!!