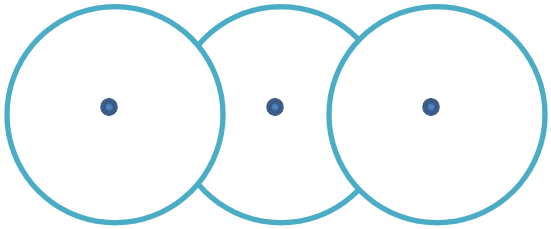
Calculate the number of devices that can be installed based on the space area

Question: Assuming that there is a rectangular area with a length of x meters and a height of y meters, 3D holographic fans need to be installed. How many fans can be installed?



A: Taking G65 as an example, according to the fan installation principle, the interval between fans is 46.4cm as follows:

Assuming that N1 devices can be installed horizontally and N2 devices can be installed vertically, then

(N1-1) * 46.4 + 32.6*2 = x

→ N1 = (x-65.2)/46.4 + 1

Similarly:

(N2-1) * 46.4 +32.6*2 = y

→ N2 = (y-65.2)/46.4 + 1

Relevant information:

X56 (radius 28.2) network spacing 40.3cm (tolerable error 0.1cm))

G65 (radius 32.6) network spacing 46.4cm (tolerance 0.1cm))

P80/G80 (radius 38.6) network spacing 55.0cm (allowable error 0.1cm)

A80/R80 (radius 38.6) Network spacing 56.0cm (allowable error 0.1cm))