1. What is the cost per die of the chip?

Answer:

$$\label{eq:cost_per_wafer} \mathbf{Cost\ per\ wafer} = \frac{\mathbf{Cost\ per\ wafer}}{\mathbf{Number\ of\ dies\ per\ wafer} \times \mathbf{Yield}}$$

2. What is the number of dies per wafer?

Answer:

$$\label{eq:Dies} \mbox{Dies per wafer} = \frac{\mbox{Area of wafer}}{\mbox{Area of die}}$$

3. What is the yield of chips?

**Answer:** 

$$\mathbf{Yield} = \frac{1}{(1 + \frac{\mathbf{Defects\ per\ area} \times \mathbf{Area\ of\ die}}{2})^2}$$