Step 3

Info:

- Machines produce 5% defective gadgets
- Widgets are packed in crates of 1900 each
- $\mu = 95 \rightarrow 1900 \cdot 0.05 = 95$
  average defective widgets = 95
- pr(defective widgets ≥ 115)? } Question

B = Defective widget

Probab. of # defective widget

$$pr(B) = \binom{1900}{B} 0.05^{B} (0.05)^{1900-B}$$

$$pr(B) = \frac{1900!}{B!(1900-B)!} \cdot 0.05^{B} \cdot (0.05)^{1900-B}$$

$$\sum_{B=115}^{1900} pr(B)$$ } This is what we are trying to answer