

put it back in

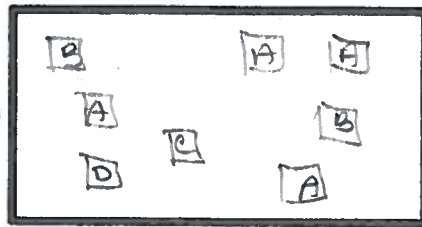
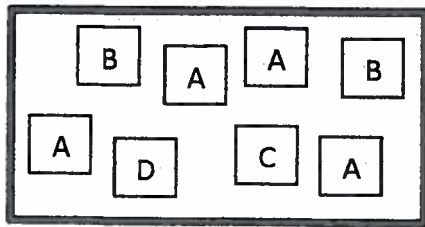
## Independent Events

- \* Two Events
- \* first event does not effect the other
- \* you put it back

$$P(A \text{ and } B) = P(A) \cdot P(B)$$

1st  $\nearrow$        $\nearrow$  and event\*

$P(A \text{ and } D)$  with replacement



still have

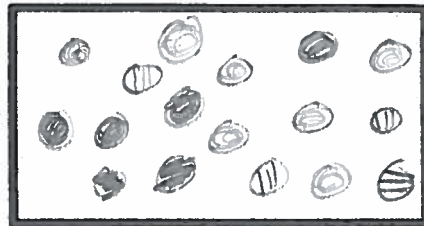
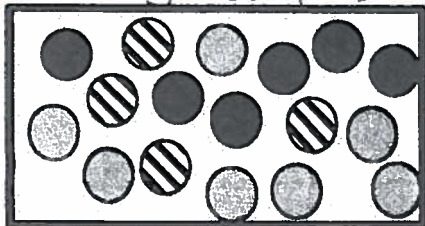
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pick then put back

$$P(A) = 4/8 \quad P(D) = 1/8$$

$$4/8 \cdot 1/8 = 1/16$$

$P(\text{Grey} + \text{striped})$  with replacement



$$P(\text{grey}) = 7/17$$

$$P(\text{striped}) = 4/17$$

$$\frac{7}{17} \cdot \frac{4}{17} = \frac{28}{289}$$