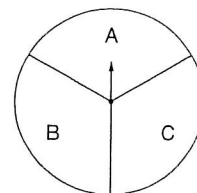
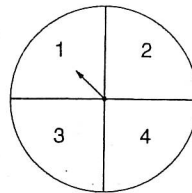


## Independent Events

Find the probability of the events in each box. Express your answers as fractions.

A.  $P(1, A) = \frac{1}{4} \cdot \frac{1}{3} = \frac{1}{12}$

$P(2, B) =$  \_\_\_\_\_



B.  $P(1, A \text{ or } B) =$  \_\_\_\_\_

$P(1 \text{ or } 2, C) =$  \_\_\_\_\_

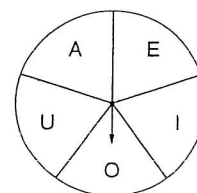
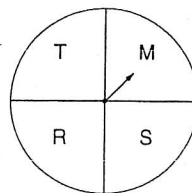
C.  $P(1, D) =$  \_\_\_\_\_

$P(\text{even}, A) =$  \_\_\_\_\_

$P(2, \text{vowel}) =$  \_\_\_\_\_

D.  $P(M, A) =$  \_\_\_\_\_

$P(T, O) =$  \_\_\_\_\_



E.  $P(M, R) =$  \_\_\_\_\_

$P(S, \text{vowel}) =$  \_\_\_\_\_

F.  $P(T, \text{not } A) =$  \_\_\_\_\_

$P(\text{not } R, A) =$  \_\_\_\_\_

$P(T, A \text{ or } E) =$  \_\_\_\_\_

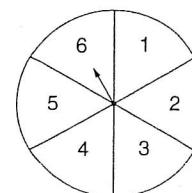
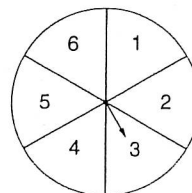
G.  $P(T \text{ or } R, O) =$  \_\_\_\_\_

$P(R \text{ or } M, \text{not } A) =$  \_\_\_\_\_

$P(\text{not } S, I \text{ or } O) =$  \_\_\_\_\_

H.  $P(5, 5) =$  \_\_\_\_\_

$P(6, 2) =$  \_\_\_\_\_



I.  $P(4, \text{not } 2) =$  \_\_\_\_\_

$P(\text{not } 1, 6) =$  \_\_\_\_\_

J.  $P(3, >4) =$  \_\_\_\_\_

$P(\geq 4, 1) =$  \_\_\_\_\_

$P(\text{odd}, \text{odd}) =$  \_\_\_\_\_

K.  $P(\text{even}, \text{odd}) =$  \_\_\_\_\_

$P(\text{even}, 3) =$  \_\_\_\_\_

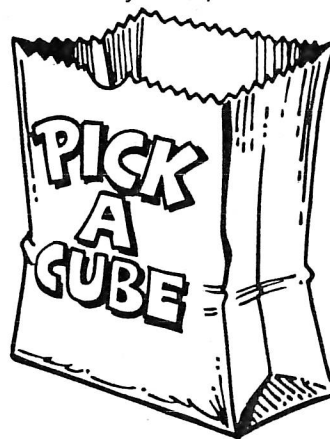
$P(0, 5) =$  \_\_\_\_\_

L.  $P(\text{not } 2, \text{not } 3) =$  \_\_\_\_\_

$P(\text{not } 1, \text{even}) =$  \_\_\_\_\_

$P(5, \text{not } 3) =$  \_\_\_\_\_

# Dependent Events

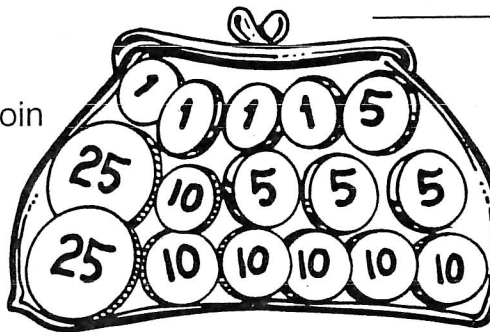


The bag contains: 2 striped cubes  
 3 dotted cubes  
 3 black cubes  
 4 white cubes

Find the probability of each event if you pick one cube and then pick another without replacing the first.

- |  |                                  |
|--|----------------------------------|
| A. P(white, then dotted) = $\frac{4}{44} \cdot \frac{3}{43} = \frac{12}{1892} = \frac{3}{473}$ | P(black, then dotted) = _____    |
| B. P(dotted, then black) = _____   | P(striped, then white) = _____   |
| C. P(white, then white) = _____  | P(dotted, then dotted) = _____   |
| D. P(black, then black) = _____  | P(striped, then striped) = _____ |
| E. P(dotted, then white) = _____   | P(striped, then black) = _____   |

Find the probability of each event if you pick one coin and then pick another without replacing the first.



- |                                     |                              |
|-------------------------------------|------------------------------|
| F. P(quarter, then dime) = _____    | P(nickel, then dime) = _____ |
| G. P(dime, then quarter) = _____    | P(penny, then dime) = _____  |
| H. P(nickel, then nickel) = _____   | P(penny, then penny) = _____ |
| I. P(dime, then nickel) = _____     | P(dime, then dime) = _____   |
| J. P(quarter, then quarter) = _____ | P(dime, then penny) = _____  |
| K. P(nickel, then penny) = _____    |                              |