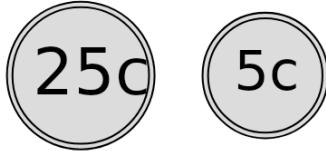




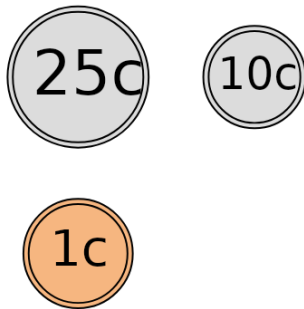
Represent compound events using tree diagrams

- 1** What is the chance of flipping both heads or both tails on these coins?



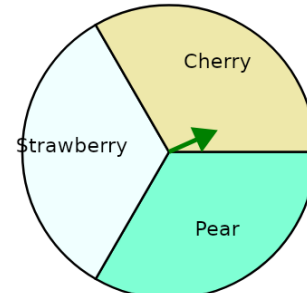
- | | | |
|--------|---------|---------|
| A 0.5 | B 1 | C 0.167 |
| D 0.75 | E 0.429 | F 0.333 |

- 3** What is the equation for the chance of flipping all heads or all tails on these coins?



- | | |
|---|---|
| A $\frac{1}{2} \cdot \frac{1}{2}$ | B $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ |
| C $1 - \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ | D $1 - \frac{1}{2} \cdot \frac{1}{2}$ |

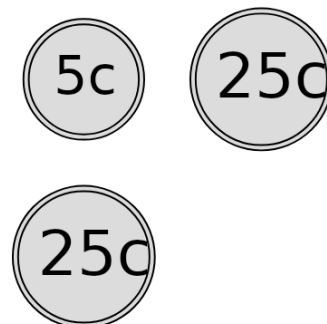
- 2** Calculate the probability of spinning Cherry twice in a row. Show as a fraction



P(Cherry twice)

- | | |
|------------------|-----------------|
| A $\frac{1}{11}$ | B $\frac{1}{9}$ |
| C $\frac{1}{7}$ | D $\frac{3}{9}$ |
| E $\frac{5}{9}$ | |

- 4** What is the equation for the chance of flipping tails on all these coins?



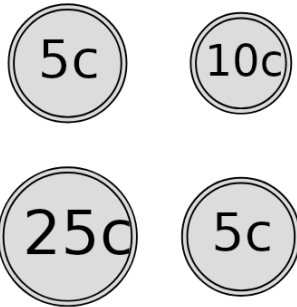
- | | |
|---|---------------------------------------|
| A $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ | B $\frac{1}{2} \cdot \frac{1}{2}$ |
| C $1 - \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ | D $1 - \frac{1}{2} \cdot \frac{1}{2}$ |



Represent compound events using tree diagrams

**5**

What is the equation for the chance of flipping all heads or all tails on these coins?



A $1 - \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$

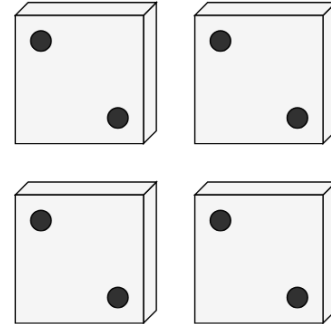
B $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$

C $1 - \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$

D $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$

6

What is the equation for the chance of rolling 2's on all these dice?



A $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

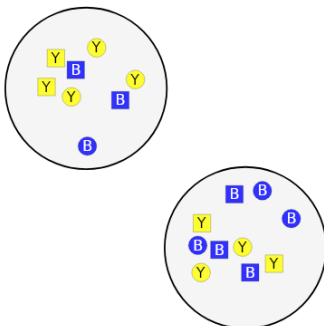
B $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

C $\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

D $1 - \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$

7

What is the equation for the chance of drawing a yellow circle at random from both bags?



A $\frac{3}{6} \cdot \frac{4}{4}$

B $\frac{2}{5} \cdot \frac{3}{8}$

C $\frac{3}{8} \cdot \frac{2}{10}$

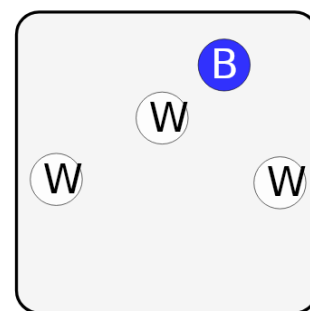
D $\frac{1}{10} \cdot \frac{4}{6}$

E $\frac{1}{3} \cdot \frac{1}{2}$

F $\frac{1}{2} \cdot \frac{1}{2}$

8

What is the equation for the chance of drawing two white shapes in a row at random from this bag?



A $\frac{6}{6} \cdot \frac{2}{10}$

B $\frac{2}{5} \cdot \frac{3}{10}$

C $\frac{3}{4} \cdot \frac{2}{3}$

D $\frac{3}{5} \cdot \frac{1}{3}$

E $\frac{2}{10} \cdot \frac{3}{4}$

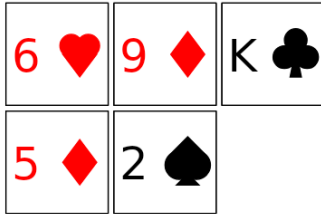
F $\frac{2}{4} \cdot \frac{2}{6}$



Represent compound events using tree diagrams

9

Calculate the probability of drawing 5, 6 in order. Show as a fraction

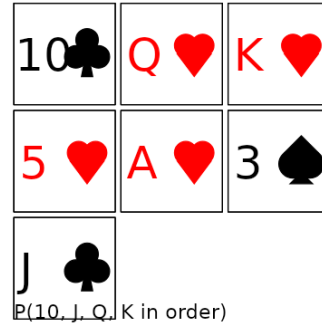


P(5, 6 in order)

A	$\frac{9}{10}$	B	$\frac{8}{10}$
C	$\frac{14}{12}$	D	$\frac{1}{20}$
E	$\frac{7}{23}$		

10

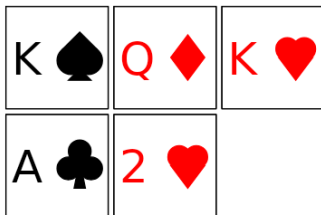
Calculate the probability of drawing 10, Jack, Queen, King in order. Show as a fraction



A	$\frac{9}{4}$	B	$\frac{14}{9}$
C	$\frac{2}{7}$	D	$\frac{1}{840}$
E	$\frac{7}{20}$		

11

Calculate the probability of drawing Ace, 2 in order. Show as a fraction

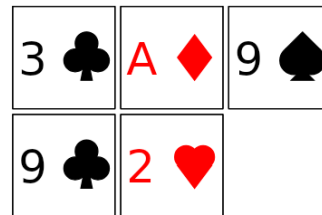


P(A, 2 in order)

A	$\frac{3}{28}$	B	$\frac{1}{20}$
C	$\frac{7}{22}$	D	$\frac{3}{7}$
E	$\frac{6}{4}$		

12

Calculate the probability of drawing Ace, 2, 3 in order. Show as a fraction



P(A, 2, 3 in order)

A	$\frac{3}{5}$	B	$\frac{4}{5}$
C	$\frac{5}{9}$	D	$\frac{1}{60}$
E	$\frac{14}{19}$		