

Use organized lists for sample spaces

1

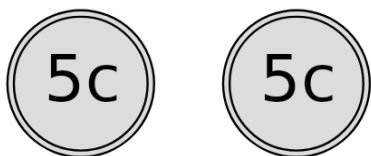
A fair coin is flipped and a fair six-sided die is rolled. A favourable outcome is one where the die shows a number less than 3.

A (T, 1) (T, 2) (T, 3) (T, 4) (T, 5)
(T, 6)

B (H, 1) (H, 2) (T, 1) (T, 2)

2

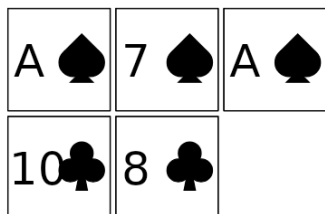
What is the chance of flipping tails on both these coins?



A 75%	B 25%	C 33.3%
D 60%	E 20%	F 33.3%

4

Calculate the probability of drawing 7, 8 in order. Show as a fraction

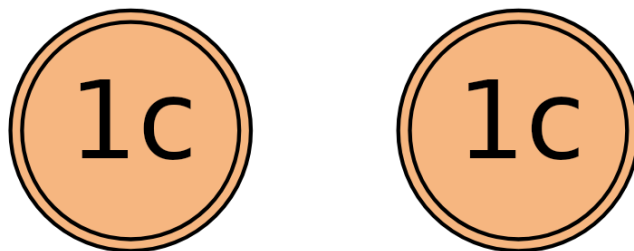


P(7, 8 in order)

A $\frac{4}{26}$	B $\frac{11}{23}$
C $\frac{14}{9}$	D $\frac{1}{20}$
E $\frac{14}{24}$	

3

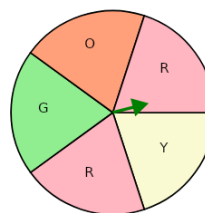
What is the chance of flipping at least one heads on these coins?



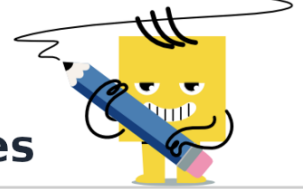
A $\frac{3}{3}$	B $\frac{4}{8}$
C $\frac{3}{4}$	D $\frac{7}{4}$
E $\frac{5}{5}$	F $\frac{1}{8}$

5

List all the possible outcomes.



A red, green, yellow, orange, blue	B red, green, yellow, orange	C red, yellow, orange	D red, green, yellow
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6

Two fair six-sided dice are rolled.

A

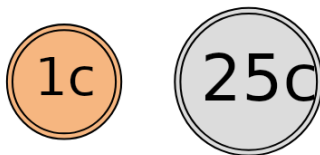
(1,1)	(1,2)	(1,3)	(1,4)	(1,5)
(1,6)	(2,1)	(2,2)	(2,3)	(2,4)
(2,5)	(2,6)	(3,1)	(3,2)	(3,3)
(3,4)	(3,5)	(3,6)	(4,1)	(4,2)
(4,3)	(4,4)	(4,5)	(4,6)	(5,1)
(5,2)	(5,3)	(5,4)	(5,5)	(5,6)
(6,1)	(6,2)	(6,3)	(6,4)	(6,5)
(6,6)				

B

(1,1)	(1,2)	(1,3)	(1,4)	(1,5)
(1,6)				

7

What is the chance of flipping a mixed set (not both heads or both tails) on these coins?



A 0.143

B 0.333

C 0.25

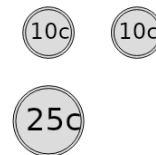
D 0.333

E 0.5

F 0.6

8

What is the chance of flipping a mixed set (not all heads or all tails) on these coins?



A 0.714

B 0.5

C 0.6

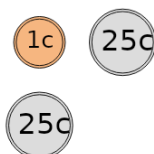
D 0.75

E 0.25

F 0.143

9

What is the chance of flipping a mixed set (not all heads or all tails) on these coins?



A 40%

B 87.5%

C 75%

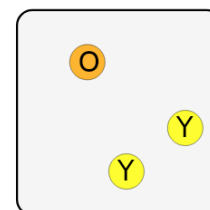
D 36.4%

E 100%

F 18.2%

10

List all the possible outcomes.

A yellow circle,
orange circle,
green squareB yellow
circleC yellow circle,
orange circleD orange
circle