



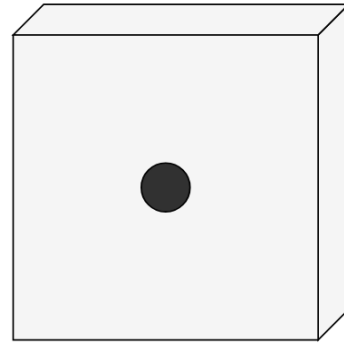
Calculate theoretical probability

- 1** What is the chance of flipping heads on this coin?



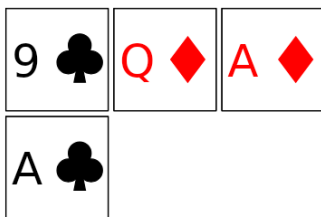
A	$\frac{2}{6}$	B	$\frac{2}{3}$
C	$\frac{1}{6}$	D	$\frac{3}{5}$
E	$\frac{1}{2}$	F	$\frac{2}{5}$

- 2** What is the chance of rolling 3 on this dice?



A	$\frac{1}{3}$	B	$\frac{3}{13}$
C	$\frac{3}{7}$	D	$\frac{3}{11}$
E	$\frac{1}{6}$	F	$\frac{2}{14}$

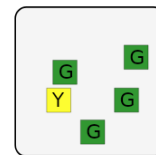
- 3** Calculate the probability of drawing a Queen of Diamonds. Show as a fraction



P(Q Diamonds)

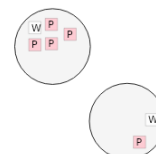
A	$\frac{2}{5}$	B	$\frac{4}{4}$
C	$\frac{1}{5}$	D	$\frac{1}{4}$

- 4** What is the chance of drawing a green square at random from this bag?



A 0.25	B 0.8	C 0.667
D 1	E 0.625	

- 5** What is the chance of drawing a pink shape at random from both bags?



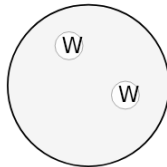
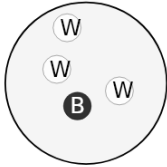
A 0.25	B 0.5	C 0.4
D 0.667	E 1	F 0.2



Calculate theoretical probability

6

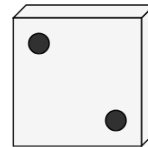
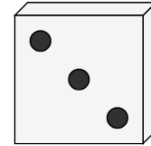
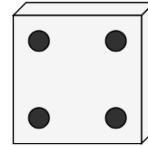
What is the chance of drawing a white shape at random from both bags?



A	$\frac{3}{5}$	B	$\frac{1}{3}$
C	$\frac{8}{10}$	D	$\frac{2}{6}$
E	$\frac{6}{8}$	F	$\frac{2}{3}$

7

What is the chance of rolling the same number on all these dice?



A	$\frac{3}{46}$	B	$\frac{2}{17}$
C	$\frac{2}{75}$	D	$\frac{1}{36}$
E	$\frac{1}{20}$	F	$\frac{3}{54}$

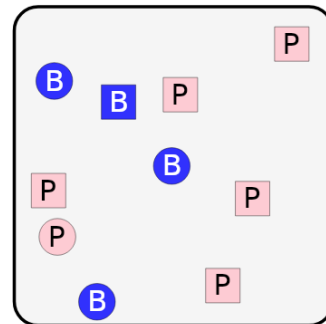
8

Two fair six-sided dice are rolled. A favourable outcome is one where the total is less than 8. There are 21 favourable outcomes.

A	$\frac{7}{12}$	B	$\frac{12}{7}$
C	$\frac{7}{5}$	D	$\frac{5}{12}$

9

What is the chance of drawing a square at random from this bag?



A	$\frac{1}{5}$	B	$\frac{6}{10}$
C	$\frac{2}{4}$	D	$\frac{2}{2}$
E	$\frac{1}{8}$	F	$\frac{2}{5}$

10

Two fair coins are flipped. There are 4 equally likely outcomes in the sample space. A favourable outcome is one where there is at least one tail.

A	$\frac{4}{3}$	B	$\frac{1}{2}$
C	$\frac{1}{4}$	D	$\frac{3}{4}$



Calculate theoretical probability

11

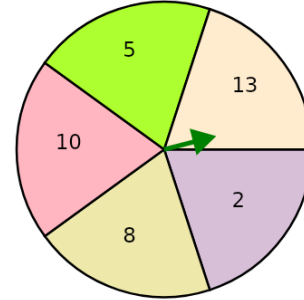
Calculate the probability of drawing any Spade. Show as a fraction

 $P(\text{Spade})$

A	$\frac{3}{5}$	B	$\frac{4}{3}$
C	$\frac{1}{4}$	D	$\frac{1}{3}$
E	$\frac{2}{4}$		

12

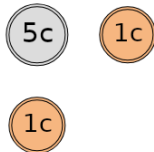
Calculate the probability of spinning greater than 11. Show as a fraction

 $P(> 11)$

A	$\frac{2}{11}$	B	$\frac{1}{5}$
C	$\frac{1}{10}$	D	$\frac{3}{5}$

13

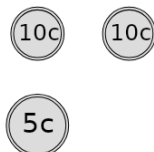
What is the chance of flipping a mixed set (not all heads or all tails) on these coins?



A 12.5%	B 75%	C 37.5%
D 140%	E 42.9%	F 27.3%

15

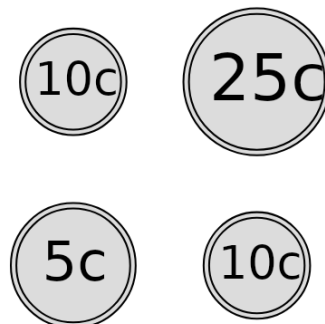
What is the chance of flipping a mixed set (not all heads or all tails) on these coins?



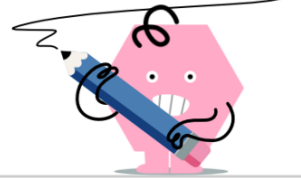
A 0.25	B 0.375	C 0.75
D 0.6	E 1.4	F 0.273

14

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



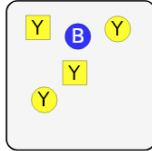
A	$\frac{3}{9}$	B	$\frac{3}{3}$
C	$\frac{3}{30}$	D	$\frac{1}{16}$
E	$\frac{3}{16}$	F	$\frac{1}{28}$



Calculate theoretical probability

16

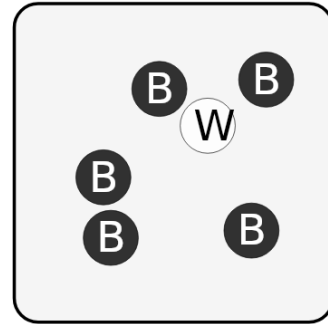
What is the chance of drawing a circle at random from this bag?



A 62.5%	B 10%	C 80%
D 40%	E 60%	F 66.7%

17

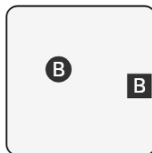
What is the chance of drawing a black circle at random from this bag?



A $\frac{1}{3}$	B $\frac{4}{5}$
C $\frac{1}{8}$	D $\frac{3}{4}$
E $\frac{3}{5}$	F $\frac{5}{6}$

18

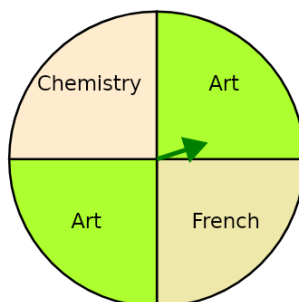
What is the chance of drawing a black square at random from this bag?



A 0.375	B 0.667	C 1
D 0.5	E 0.3	F 0.333

19

Calculate the probability of spinning French. Show as a fraction



P(French)

A $\frac{1}{3}$	B $\frac{1}{11}$
C $\frac{2}{9}$	D $\frac{2}{6}$
E $\frac{1}{4}$	