

Probability

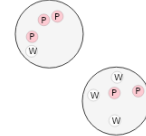
- 1** If one of the gym members is chosen at random, what is the probability they are in the spin group?

In a survey of gym members, 20% take both, 48% are in the yoga group but not the spin group, and 20% are in the spin group but not the yoga group.

A $\frac{17}{25}$

B $\frac{2}{5}$

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



A 0.15

B 0.2

C 1

D 0.25

E 0.4

F 0.5

- 3** Find the probability.

A 0.70

B 0.80

C 0.90

D 0.20

- 4** If one of the students is chosen at random, what is the probability they are in both groups?

In a group of 25 students, 72% are in the band group but not the drama group, 3 are in the drama group but not the band group, and 2 are in neither group.

A $\frac{2}{25}$

B $\frac{6}{25}$

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



A 0.75

B 0.167

C 0.556

D 1.25

E 0.571

F 0.167

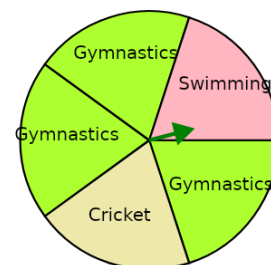
- 7** What is the probability of getting a favourable outcome?

A fair six-sided die is rolled and a spinner with red, green, and blue sections is spun. A favourable outcome is one where the die shows a number less than 3. There are 6 favourable outcomes.

A $\frac{1}{3}$

B $\frac{1}{2}$

- 6** Calculate the probability of spinning Gymnastics at least once, given two spins. Show as a fraction



P(Gymnastics in 2 spins)

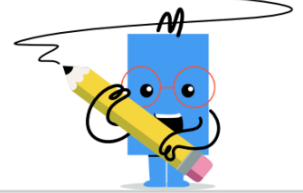
A $\frac{23}{26}$

B $\frac{17}{23}$

C $\frac{24}{23}$

D $\frac{21}{25}$

E $\frac{22}{27}$



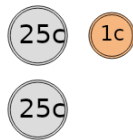
Probability

- 8** What is the probability of getting a favourable outcome?

A fair six-sided die is rolled and a spinner with red, green, and blue sections is spun. There are 18 equally likely outcomes in the sample space. A favourable outcome is one where the die shows a 5.

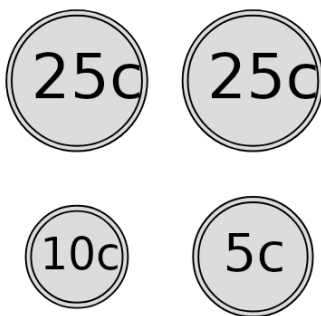
A	$\frac{2}{9}$	B	$\frac{1}{6}$
---	---------------	---	---------------

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



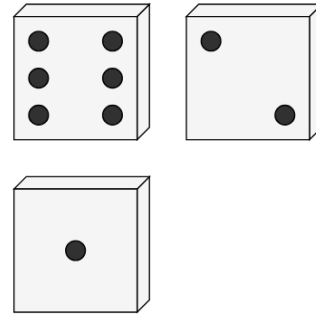
A	44.4%	B	83.3%	C	75%
D	62.5%	E	200%	F	166.7%

- 11** What is the chance of flipping heads on all these coins?



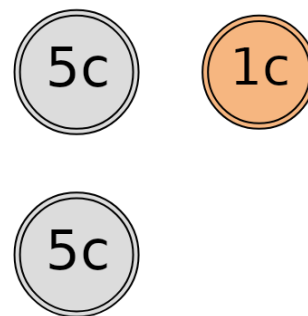
A	$\frac{1}{12}$	B	$\frac{3}{16}$
C	$\frac{1}{16}$	D	$\frac{3}{5}$
E	$\frac{2}{15}$	F	$\frac{3}{33}$

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

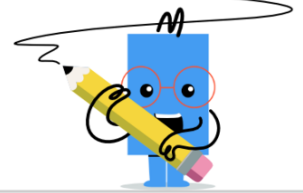


A	$\frac{3}{52}$	B	$\frac{1}{48}$
C	$\frac{2}{34}$	D	$\frac{1}{36}$
E	$\frac{2}{69}$	F	$\frac{2}{56}$

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

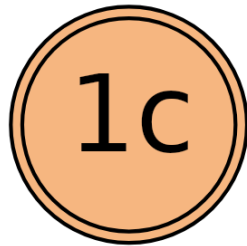


A	$\frac{4}{5}$	B	$\frac{3}{4}$
C	$\frac{3}{5}$	D	$\frac{5}{6}$
E	$\frac{6}{6}$	F	$\frac{7}{9}$



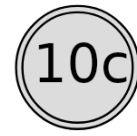
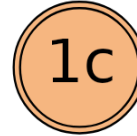
Probability

13 What is the chance of NOT flipping both tails on these coins?



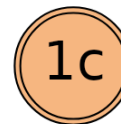
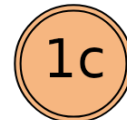
A	$\frac{3}{4}$	B	$\frac{6}{5}$
C	$\frac{1}{8}$	D	$\frac{3}{9}$
E	$\frac{4}{5}$	F	$\frac{5}{4}$

14 What is the chance of NOT flipping both tails on these coins?



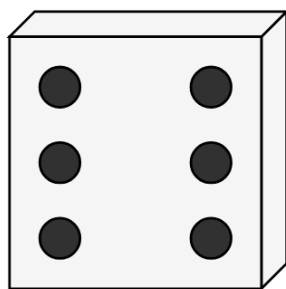
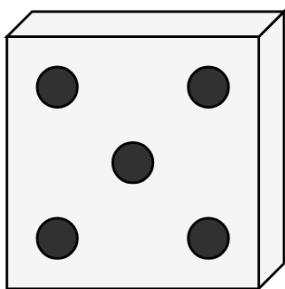
A	75%	B	50%	C	77.8%
D	25%	E	77.8%	F	77.8%

15 What is the chance of NOT flipping all tails on these coins?



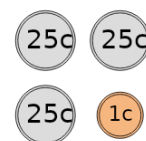
A	$\frac{12}{14}$	B	$\frac{10}{6}$
C	$\frac{7}{8}$	D	$\frac{15}{7}$
E	$\frac{2}{8}$	F	$\frac{15}{18}$

16 What is the chance of NOT rolling double 2's on these dice?



A	$\frac{15}{40}$	B	$\frac{60}{7}$
C	$\frac{64}{74}$	D	$\frac{15}{23}$
E	$\frac{48}{37}$	F	$\frac{35}{36}$

17 What is the chance of NOT flipping all tails on these coins?



A	0.417	B	0.5	C	0.789
D	1.286	E	0.565	F	0.938