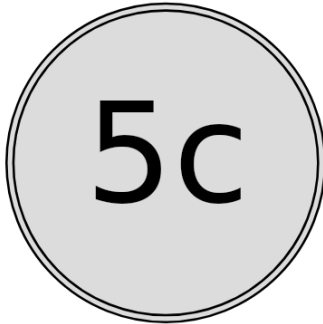




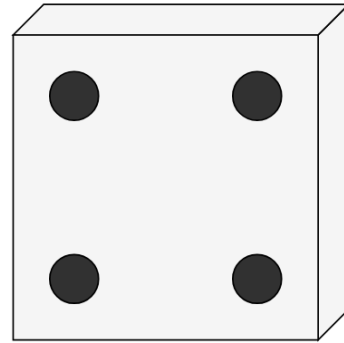
## Determine theoretical probability

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



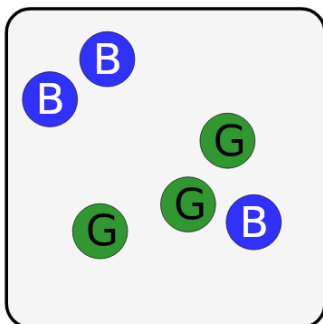
|   |               |   |               |
|---|---------------|---|---------------|
| A | $\frac{3}{3}$ | B | $\frac{3}{5}$ |
| C | $\frac{3}{7}$ | D | $\frac{2}{7}$ |
| E | $\frac{1}{2}$ | F | $\frac{1}{6}$ |

- 2** What is the chance of rolling 5 on this dice?



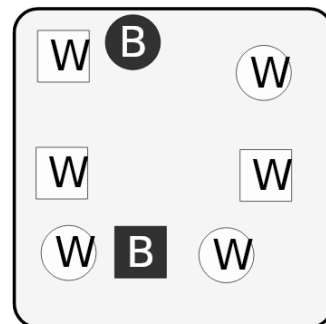
|   |                |   |                |
|---|----------------|---|----------------|
| A | $\frac{2}{13}$ | B | $\frac{1}{5}$  |
| C | $\frac{3}{7}$  | D | $\frac{1}{6}$  |
| E | $\frac{2}{6}$  | F | $\frac{2}{11}$ |

- 3** What is the chance of drawing a blue circle at random from this bag?



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

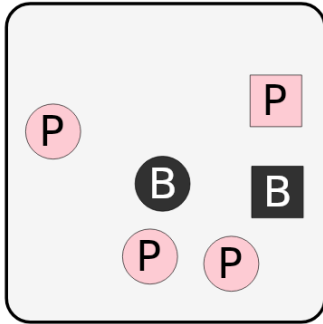
- 4** What is the chance of drawing a square at random from this bag?



|   |                |   |               |
|---|----------------|---|---------------|
| A | $\frac{1}{3}$  | B | $\frac{4}{8}$ |
| C | $\frac{2}{5}$  | D | $\frac{5}{8}$ |
| E | $\frac{4}{10}$ | F | $\frac{2}{2}$ |

**Determine theoretical probability****5**

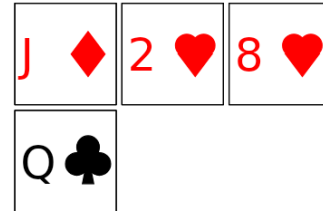
What is the chance of drawing a pink shape at random from this bag?



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

**6**

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

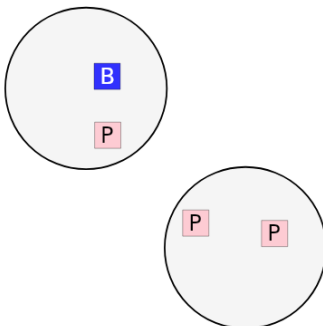


P(J)

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

**7**

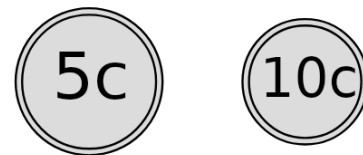
What is the chance of drawing a pink shape at random from both bags?



|   |               |   |                |
|---|---------------|---|----------------|
| A | $\frac{2}{4}$ | B | $\frac{4}{4}$  |
| C | $\frac{1}{6}$ | D | $\frac{1}{10}$ |
| E | $\frac{1}{8}$ | F | $\frac{3}{4}$  |

**8**

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



|         |       |         |
|---------|-------|---------|
| A 0.222 | B 0.4 | C 0.333 |
| D 0.25  | E 0.5 | F 0.333 |

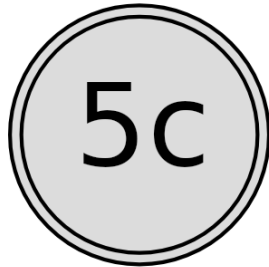
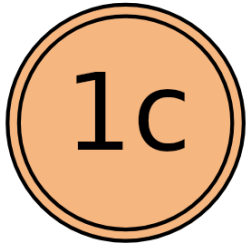
**9**

A spinner with three equal-sized sections coloured red, green, and blue is spun twice. A favourable outcome is one where there is no red. There are 4 favourable outcomes.

|   |               |   |               |
|---|---------------|---|---------------|
| A | $\frac{4}{9}$ | B | $\frac{4}{5}$ |
| C | $\frac{5}{9}$ | D | $\frac{9}{4}$ |

**Determine theoretical probability****10**

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



A  $\frac{1}{2}$

B  $\frac{1}{3}$

C  $\frac{3}{5}$

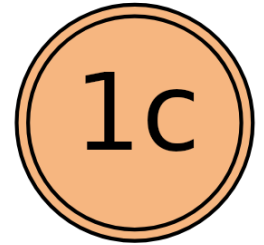
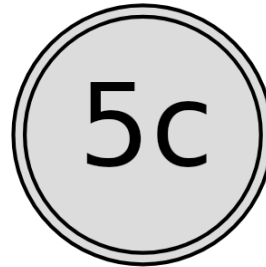
D  $\frac{3}{7}$

E  $\frac{2}{3}$

F  $\frac{3}{3}$

**11**

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



A  $\frac{2}{6}$

B  $\frac{4}{8}$

C  $\frac{7}{4}$

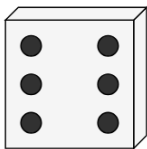
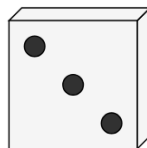
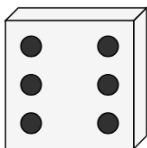
D  $\frac{3}{4}$

E  $\frac{6}{9}$

F  $\frac{7}{8}$

**12**

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



A  $\frac{3}{74}$

B  $\frac{1}{63}$

C  $\frac{3}{7}$

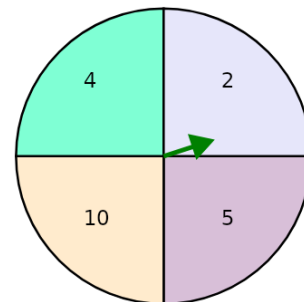
D  $\frac{1}{34}$

E  $\frac{1}{17}$

F  $\frac{1}{36}$

**13**

Calculate the probability of spinning an odd number. Show as a fraction



P(odd)

A  $\frac{1}{7}$

B  $\frac{1}{4}$

C  $\frac{2}{9}$

D  $\frac{3}{3}$

E  $\frac{2}{6}$