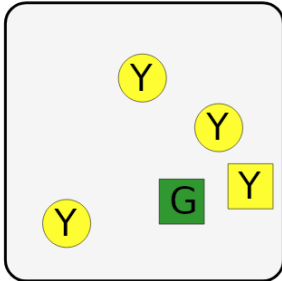


Represent sample spaces using tree diagrams

1 List all the possible outcomes.



- A green square, yellow square
- B green square, yellow circle, yellow square, orange circle
- C green square, yellow circle, yellow square
- D green square, yellow circle, yellow square, green circle

2 How many possible outcomes are in the sample space?

A spinner with three equal-sized sections coloured red, green, and blue is spun three times.

A	9	B	24
C	30	D	27

3 List all the possible outcomes in the sample space.

Two fair coins are flipped.

A HH HT TH TT

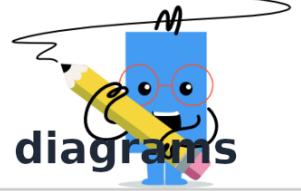
B TH TT TH TT

4 List all the possible outcomes in the sample space.

A spinner with three equal-sized sections coloured red, green, and blue is spun three times.

A RRR RRG RRB RGR RGG
RGB RBR RBG RBB GRR
GRG GRB GGR GGG GGB
GBR GBG GBB BRR BRG
BRB BGR BGG BGB BBR
BBG BBB

B RRR RRG RRB RGR RGG
RGB RBR RBG RBB

**Represent sample spaces using tree diagrams**

- 5 List all the possible outcomes in the sample space.

A fair coin is flipped and a fair six-sided die is rolled.

A

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

B

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

- 6 List all the possible outcomes in the sample space.

Three fair coins are flipped.

A

HHT HHT HTT HTT THT
THT TTT TTT

B

HHH HHT HTH HTT THH
THT TTH TTT