

### Chance

① Coin  $\left\{ \begin{array}{l} \text{Heads} \\ \text{Tails} \end{array} \right\}$  Two outcomes

You have an even chance of getting a H or T when you throw a coin.

Evens, 50:50 or  $\frac{1}{2}$

② A fair die  $\frac{1}{6}$

List all the possible outcomes of throwing a fair die and tossing a coin.

H1, H2, H3, H4, H5, H6  
T1, T2, T3, T4, T5, T6 } 12 possible outcomes

### The fundamental principle of counting

If an event has  $m$  possible outcomes and another event has  $n$  possible outcomes. The two events will have  $m \times n$  possible outcomes.

Eg Coin = 2 outcomes H, T  $m$       Total  $m \times n$   
Die = 6 outcomes  $n$                        $2 \times 6 = 12$

Pg 76

Q1 Coin H, T (2)  
Spinner 1, 2, 3 (3)

Total  $2 \times 3 = 6$

② 2 starts  
4 main  
 $2 \times 4 = 8$  outcomes

H1, H2, H3, T1, T2, T3

③ coin 1      coin 2  
H, T      H T = 4

HH, TT, HT, TH

④ coin x spinner  
(2) x (5) = 10

H/W Q4 pg 76  
Q5+6 Pg 77.