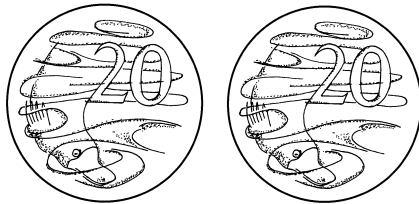


# PROBABILITY



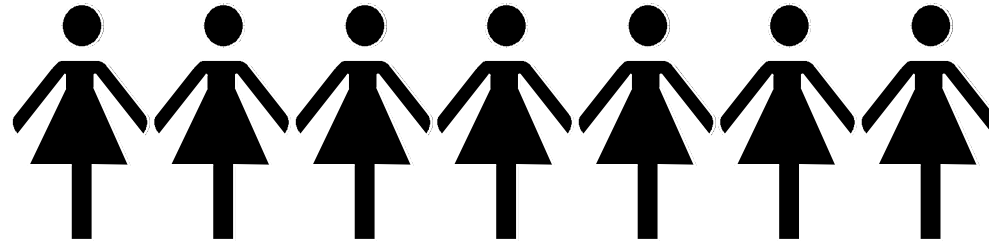
the probability of flipping a 'tail' is 1 chance in 2  
**(1/2)**



the probability of flipping 2 'tails' is 1 chance in 4  
**(1/4) or (1/2 x 1/2)**

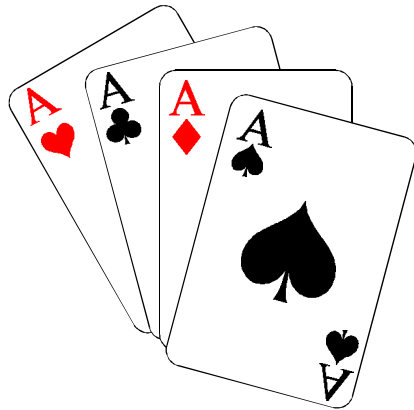


the probability of having a daughter is 1 chance in 2  
**(1/2)**



the probability of having 7 daughter is 1 chance in 128  
**(1/128) or (1/2 x 1/2 x 1/2 x 1/2 x 1/2 x 1/2 x 1/2)**

If all the parents in the world who have seven children were surveyed,  
1/128 would have 7 daughters



to draw the Ace of Spades from a pack of cards is  
1 chance in 52 or  $(1/52)$

If one card was drawn from a pack, 1 million times:-

- you would succeed on 17,230 occasions
- a pile of 980,770 cards would be the failures