

- 10 The following sample space represents the results obtained from tossing two coins.

		Coin 1	
		Head	Tail
Coin 2	Head	H,H	H,T
	Tail	T,H	T,T

Pr(head, tail in any order) is:

- A $\frac{1}{4}$
 B $\frac{2}{4}$
 C $\frac{3}{4}$
 D 1
- 11 If I bought 8 tickets in a raffle the probability that I win is $\frac{8}{100}$. The total number of tickets sold in the raffle must therefore be:
 A $\frac{8}{100}$
 B 8
 C 100
 D 108
- 12 The probability of selecting a green ball from a box is $\frac{2}{5}$. The probability of selecting any other colour is therefore:
 A $\frac{2}{5}$
 B $\frac{3}{5}$
 C 1
 D 2
- 13 On a roulette wheel there are 18 black numbers, 18 red numbers and 1 green number. On a random spin the probability of a black number not occurring is:
 A $\frac{1}{37}$
 B $\frac{1}{18}$
 C $\frac{19}{36}$
 D $\frac{19}{37}$

- 14 On a spinner, a successful event is considered to be spinning an even number. If there are 9 numbers on the spinner the probability of success is:
 A 0
 B $\frac{4}{9}$
 C $\frac{1}{2}$
 D $\frac{5}{9}$

- 15 The probability of selecting a picture card from a pack of cards is:
 A $\frac{1}{52}$
 B $\frac{3}{13}$
 C $\frac{1}{4}$
 D $\frac{1}{2}$

- 16 If a successful event has a probability of $\frac{1}{4}$, then probability of failure is:
 A $\frac{1}{4}$
 B $\frac{3}{4}$
 C 1
 D 4

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Test Yourself Chapter 14 Probability

Name: _____

All Multiple Choice

- 1 The event which is 50/50 is: C
A you will roll a 3 on a 6-sided die
B you will score 12 points in your next basketball game
C you will toss a coin and obtain a 'head'
D the sun will rise tomorrow
- 2 The event which is impossible is: A
A there will be no Sunday next week
B life will be discovered on Mars
C The Sharks will win the NRL premiership this year
D you will sleep in tomorrow
- 3 The term which means the same as impossible is: C
A unlikely
B definite
C no chance
D improbable
- 4 The term which best describes the probability of it being overcast in Melbourne on a winter day is: B
A certain
B highly likely
C even chance
D unlikely
- 5 The term which most closely represents a 30% chance of something happening is: D
A certain
B highly likely
C even chance
D unlikely
- 6 The term which most closely represents a $\frac{7}{8}$ chance of something happening is: B
A certain
B highly likely
C even chance
D unlikely
- 7 The number of possible results for selecting a student from a class of 12 boys and 15 girls is: D
A 1
B 12
C 15
D 27
- 8 In a bag there are 4 yellow, 2 blue and 5 red marbles. The probability of selecting a blue marble is: B
A 0
B $\frac{2}{11}$
C $\frac{2}{9}$
D 1
- 9 The sample space for spinning a spinner that is divided into four equal parts of red, white, blue and black is: C
A {4}
B {1}
C {red, white, blue, black}
D {red, white}

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 B 8
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 D 108
- 12 The probability of selecting a green ball from a box is $\frac{2}{5}$. The probability of selecting any other colour is therefore: B
- A $\frac{2}{5}$
 B $\frac{3}{5}$
 C 1
 D 2
- 13 On a roulette wheel there are 18 black numbers, 18 red numbers and 1 green number. On a random spin the probability of a black number not occurring is: D
- A $\frac{1}{37}$
 B $\frac{1}{18}$
 C $\frac{19}{36}$
 D $\frac{19}{37}$

- 14 On a spinner, a successful event is considered to be spinning an even number. If there are 9 numbers on the spinner the probability of success is: B
- A 0
 B $\frac{4}{9}$
 C $\frac{1}{2}$
 D $\frac{5}{9}$
- 15 The probability of selecting a picture card from a pack of cards is: B
- A $\frac{1}{52}$
 B $\frac{3}{13}$
 C $\frac{1}{4}$
 D $\frac{1}{2}$
- 16 If a successful event has a probability of $\frac{1}{4}$, then probability of failure is: B
- A $\frac{1}{4}$
 B $\frac{3}{4}$
 C 1
 D 4