QUEBEC MATHEMATICS, CULTURAL, SOCIAL AND TECHNICAL OPTION, SECONDARY V · UNIT D · 25 QUESTIONS

Probability — Practice Test

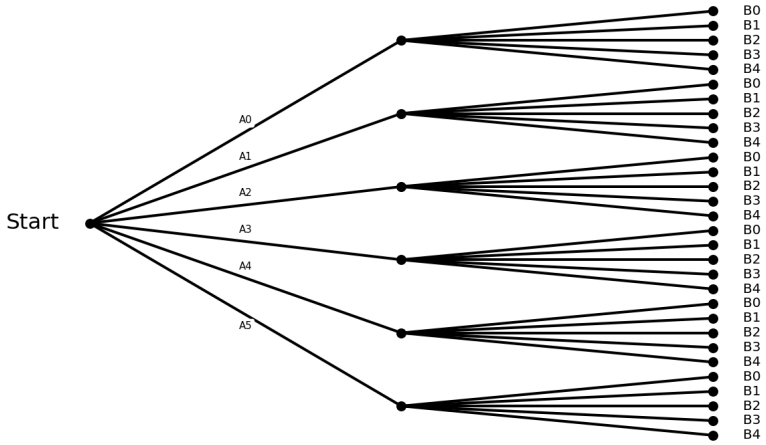
This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A bag has 60 marbles and 11 are red. The number that are not red is**

ANSWER

Understand It with Pulse | Flag a mistake

2 **A tree diagram has 6 first branches and each splits into 5 branches. The number of outcomes is**



ANSWER

Understand It with Pulse | Flag a mistake

3 **An event has 3 favourable outcomes out of 9 equally likely outcomes. Its probability is**

A 1

B 1

C 1

D 2

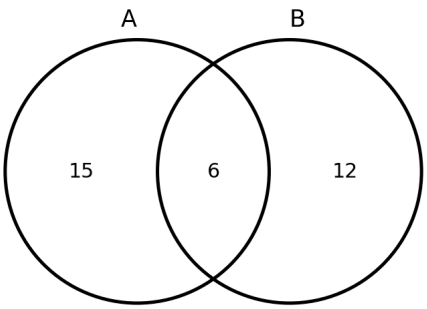
Understand It with Pulse | Flag a mistake

4 **In a survey 10 out of 40 people chose an option. The number who did not choose it out of 100 at the same rate is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The diagram shows sets A and B with 15 in A only 6 in both and 12 in B only. The number in A or B is**



ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A coin is tossed 10 times. The number of possible outcomes is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **In a lottery 500 tickets are sold and 80 win a prize. The number of losing tickets is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A bag has 4 red marbles and 9 blue marbles. The probability of drawing a red marble is**

- A 4
- B 1
- C 1
- D 2

Understand It with Pulse | Flag a mistake

9 **An event has 1 favourable outcome out of 9 equally likely outcomes. Its probability is**

- A 1
- B 1
- C 1
- D 1

Understand It with Pulse | Flag a mistake

10 **An event with probability one half has a prize of 160 dollars. Its expected value in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **An event with probability one quarter has a prize of 260 dollars. Its expected value in dollars is**

ANSWER _____

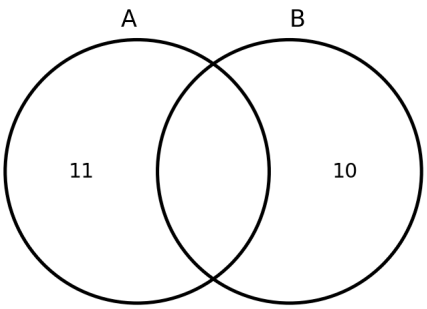
Understand It with Pulse | Flag a mistake

12 **An event with probability three quarters has a prize of 140 dollars. Its expected value in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **The diagram shows sets A and B with 11 in A only and 10 in B only. There are 30 in total. The number in both A and B is**



ANSWER

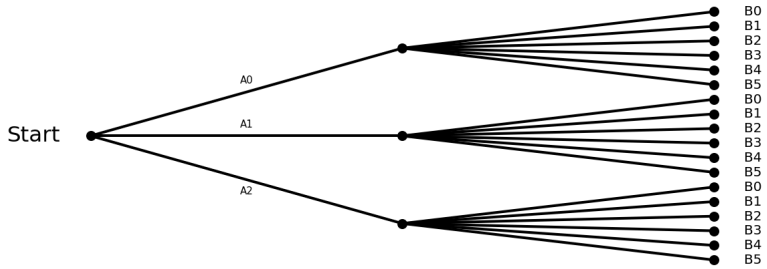
Understand It with Pulse | Flag a mistake

14 **A bag has 80 marbles and 28 are red. The number that are not red is**

ANSWER

Understand It with Pulse | Flag a mistake

15 **A tree diagram has 3 first branches and each splits into 6 branches. The number of outcomes is**



ANSWER

Understand It with Pulse | Flag a mistake

16 **An event has 4 favourable outcomes out of 11 equally likely outcomes. Its probability is**

A 4

B 1

C 1

D 1

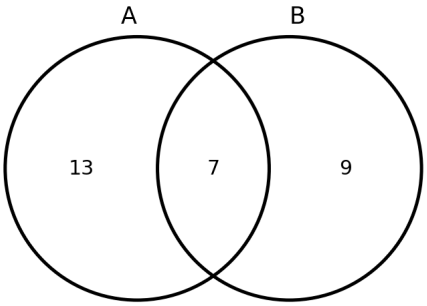
Understand It with Pulse | Flag a mistake

17 **In a survey 5 out of 10 people chose an option. The number who did not choose it out of 100 at the same rate is**

ANSWER

Understand It with Pulse | Flag a mistake

18 **The diagram shows sets A and B with 13 in A only 7 in both and 9 in B only. The number in A or B is**



ANSWER

Understand It with Pulse | Flag a mistake

19 **A coin is tossed 7 times. The number of possible outcomes is**

ANSWER

Understand It with Pulse | Flag a mistake

20 **In a lottery 400 tickets are sold and 50 win a prize. The number of losing tickets is**

ANSWER

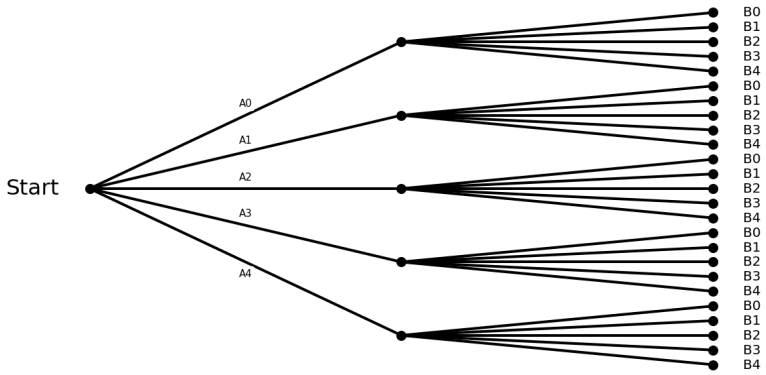
Understand It with Pulse | Flag a mistake

21 **A bag has 70 marbles and 13 are red. The number that are not red is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **A tree diagram has 5 first branches and each splits into 5 branches. The number of outcomes is**



ANSWER

Understand It with Pulse | Flag a mistake

23 An event has 3 favourable outcomes out of 7 equally likely outcomes. Its probability is

- **A** 3
- **B** 1
- **C** 1
- **D** 1

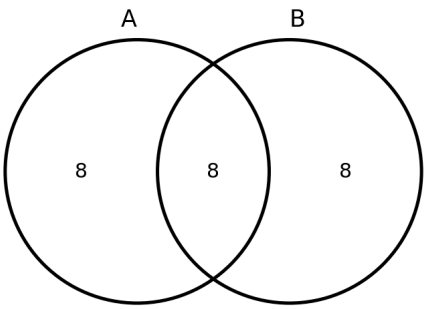
Understand It with Pulse | Flag a mistake

24 In a survey 6 out of 20 people chose an option. The number who did not choose it out of 100 at the same rate is

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The diagram shows sets A and B with 8 in A only 8 in both and 8 in B only. The number in A or B is**



ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 49
2. 30
3. A
4. 75
5. 33
6. 1024
7. 420
8. A
9. B
10. 80
11. 65
12. 105
13. 9
14. 52
15. 18
16. A
17. 50
18. 29
19. 128
20. 350
21. 57
22. 25
23. A
24. 70
25. 24

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