QUEBEC MATHEMATICS, SCIENCE 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 coin is tossed 9 times. The number of possible outcomes is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A $\frac{1}{3}$

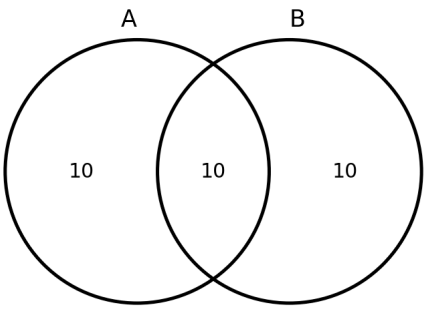
B $\frac{1}{6}$

C $\frac{1}{2}$

D $\frac{2}{3}$

Understand It with Pulse | Flag a mistake

3 **The diagram shows sets A and B with 10 in A only 10 in both and 10 in B only. The number in A or B is**



ANSWER

Understand It with Pulse | Flag a mistake

4 **A bag has 70 marbles and 10 are red. The number that are not red is**

ANSWER

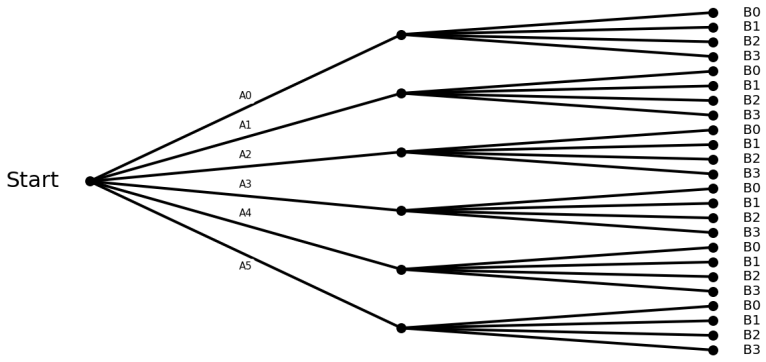
Understand It with Pulse | Flag a mistake

5 **A bag has 9 red marbles and 11 blue marbles. The probability of drawing a red marble is**

- **A** $\frac{9}{20}$
- **B** $\frac{1}{2}$
- **C** $\frac{1}{3}$
- **D** $\frac{2}{5}$

Understand It with Pulse | Flag a mistake

6 **A tree diagram has 6 first branches and each splits into 4 branches. The number of outcomes is**



ANSWER _____

Understand It with Pulse | Flag a mistake

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

- **A** $\frac{1}{6}$
- **B** $\frac{1}{9}$
- **C** $\frac{1}{3}$
- **D** $\frac{1}{2}$

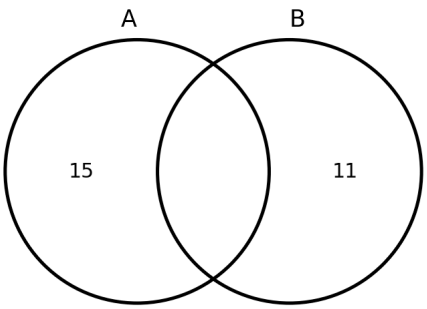
Understand It with Pulse | Flag a mistake

8 **In a survey 8 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

9 The diagram shows sets A and B with 15 in A only and 11 in B only. There are 35 in total. The number in both A and B is



ANSWER

Understand It with Pulse | Flag a mistake

10 An event with probability one half has a prize of 200 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 300 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 180 dollars. Its expected value in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Two dice are rolled. The number of outcomes giving the stated sum is 7 out of 36. The number of outcomes not giving it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A coin is tossed 8 times. The number of possible outcomes is**

ANSWER _____

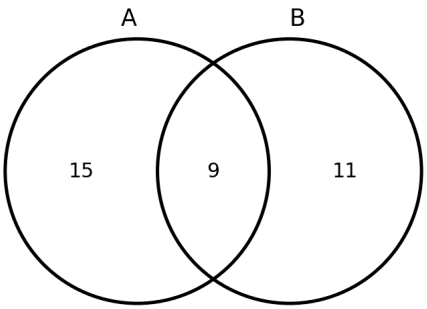
Understand It with Pulse | Flag a mistake

15 **An event has 3 favourable outcomes out of 11 equally likely outcomes. Its probability is**

- **A** $\frac{3}{11}$
- **B** $\frac{1}{6}$
- **C** $\frac{1}{3}$
- **D** $\frac{1}{2}$

Understand It with Pulse | Flag a mistake

16 **The diagram shows sets A and B with 15 in A only 9 in both and 11 in B only. The number in A or B is**



ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A bag has 90 marbles and 15 are red. The number that are not red is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A bag has 7 red marbles and 13 blue marbles. The probability of drawing a red marble is**

A $\frac{1}{2}$

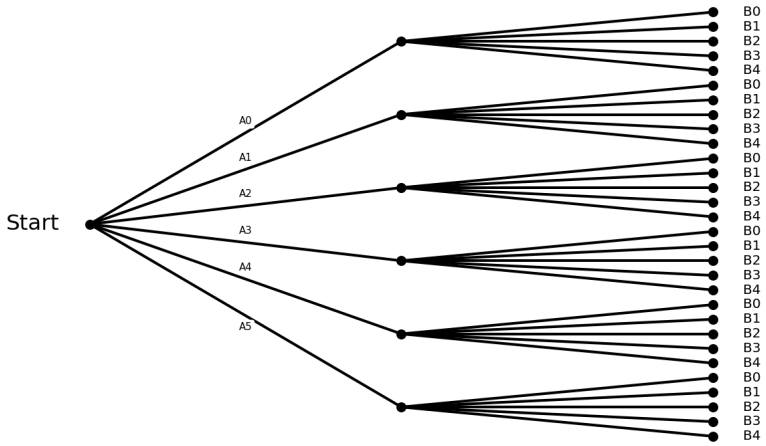
B $\frac{7}{20}$

C $\frac{1}{3}$

D $\frac{2}{5}$

Understand It with Pulse | Flag a mistake

19 **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

20 An event has 1 favourable outcome out of 11 equally likely outcomes. Its probability is

- **A** $\frac{1}{11}$
- **B** $\frac{1}{6}$
- **C** $\frac{1}{3}$
- **D** $\frac{1}{2}$

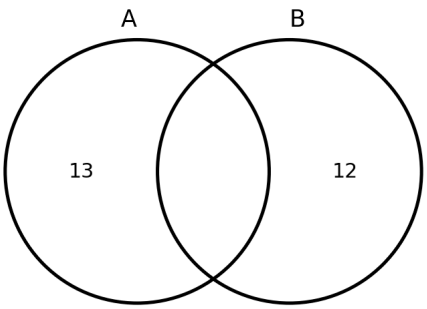
Understand It with Pulse | Flag a mistake

21 In a survey 12 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

22 **The diagram shows sets A and B with 13 in A only and 12 in B only. There are 36 in total. The number in both A and B is**



ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER

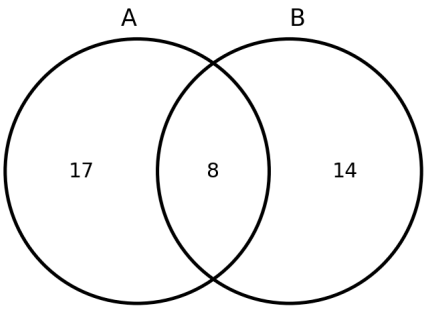
Understand It with Pulse | Flag a mistake

24 **An event has 2 favourable outcomes out of 11 equally likely outcomes. Its probability is**

- **A** $\frac{2}{11}$
- **B** $\frac{1}{6}$
- **C** $\frac{1}{3}$
- **D** $\frac{1}{2}$

Understand It with Pulse | Flag a mistake

25 **The diagram shows sets A and B with 17 in A only 8 in both and 14 in B only. The number in A or B is**



ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 512
2. A
3. 30
4. 60
5. A
6. 24
7. B
8. 60
9. 9
10. 100
11. 75
12. 135
13. 29
14. 256
15. A
16. 35
17. 75
18. B
19. 30
20. A
21. 70
22. 11
23. 128
24. A
25. 39

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