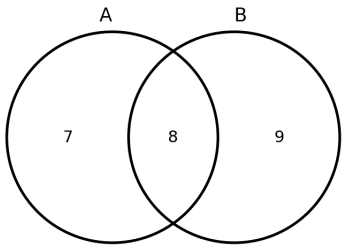
QUEBEC MATHEMATICS, TECHNICAL AND SCIENTIFIC OPTION, SECONDARY V · UNIT D · 25 QUESTIONS

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 **The diagram shows sets A and B with 7 in A only 8 in both and 9 in B only. The number in A or B is**



ANSWER _____

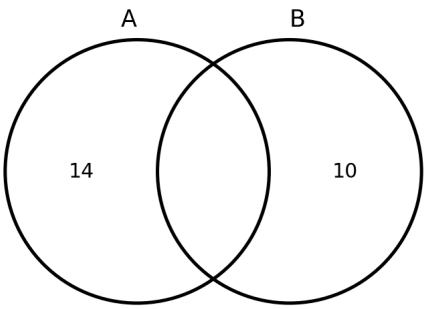
Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The diagram shows sets A and B with 14 in A only and 10 in B only. There are 32 in total. The number in both A and B is**



ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The number of combinations of 7 items taken 3 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **In a survey 11 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

7 **An event has 1 favourable outcome out of 8 equally likely outcomes. Its probability is**

A 1

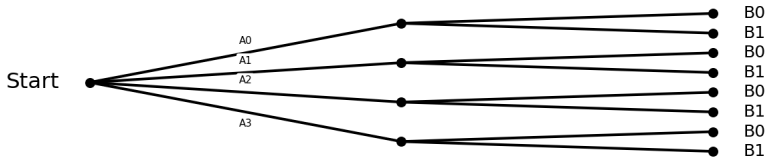
B 1

C 1

D 1

Understand It with Pulse | Flag a mistake

8 **A tree diagram has 4 first branches and each splits into 2 branches. The number of outcomes is**



ANSWER

Understand It with Pulse | Flag a mistake

9 **The number of combinations of 12 items taken 3 at a time is**

ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

11 **The number of combinations of 13 items taken 2 at a time is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **An event with probability one sixth has a prize of 200 dollars. Its expected value in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **An event with probability one quarter has a prize of 280 dollars. Its expected value in dollars is**

ANSWER _____

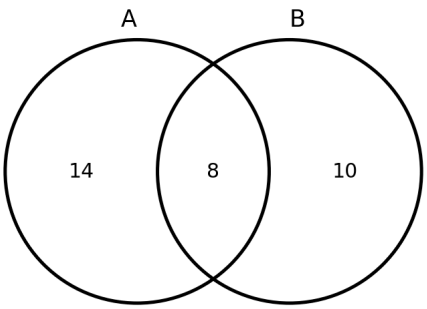
Understand It with Pulse | Flag a mistake

14 **A quality check finds 12 defective parts out of 600. The number of good parts is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **The diagram shows sets A and B with 14 in A only 8 in both and 10 in B only. The number in A or B is**



ANSWER

Understand It with Pulse | Flag a mistake

16 **An event has 3 favourable outcomes out of 10 equally likely outcomes. Its probability is**

A 3

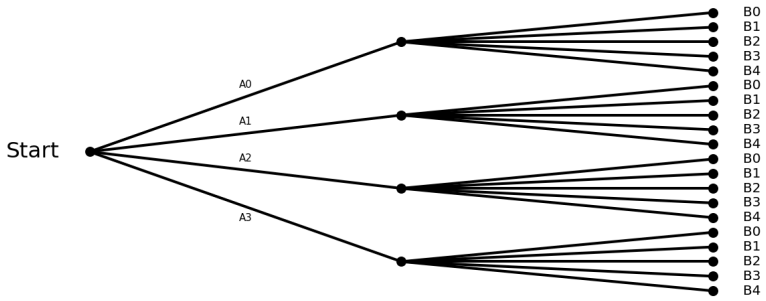
B 1

C 1

D 1

Understand It with Pulse | Flag a mistake

17 **A tree diagram has 4 first branches and each splits into 5 branches. The number of outcomes is**



ANSWER

Understand It with Pulse | Flag a mistake

18 **The number of permutations of 11 items taken 2 at a time is**

ANSWER

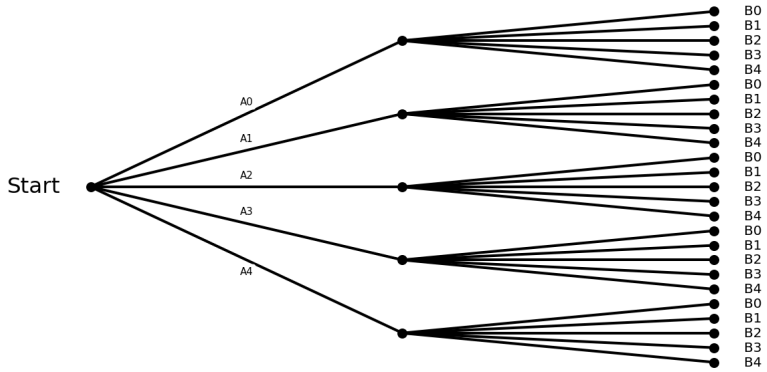
Understand It with Pulse | Flag a mistake

19 **The number of permutations of 12 items taken 3 at a time is**

ANSWER

Understand It with Pulse | Flag a mistake

20 **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

21 **The number of permutations of 10 items taken 3 at a time is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **A bag has 8 red marbles and 10 blue marbles. The probability of drawing a red marble is**

A 1

B 4

C 1

D 2

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **An event has 5 favourable outcomes out of 9 equally likely outcomes. Its probability is**

A 5

B 1

C 1

D 1

Understand It with Pulse | Flag a mistake

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

A 1

B 1

C 2

D 3

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 24
2. 128
3. 8
4. 1024
5. 35
6. 72.5
7. A
8. 8
9. 220
10. 90
11. 78
12. 33.33
13. 70
14. 588
15. 32
16. A
17. 20
18. 110
19. 1320
20. 25
21. 720
22. B
23. 256
24. A
25. A

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