QUEBEC MATHEMATICS, SCIENCE OPTION, SECONDARY V · FINAL EXAM · 50 QUESTIONS

Final Exam — 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 **Simple interest on 1100 dollars at 10 percent per year for 2 years is in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The larger root of $x^2-22x+120=0$ is**

ANSWER _____

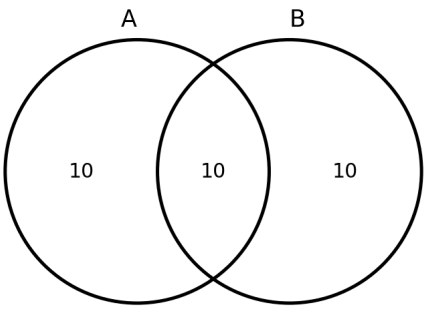
Understand It with Pulse | Flag a mistake

3 **A rectangle has length 13 and width 10. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **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

5 **A normal distribution has mean 150 and standard deviation 10. The z score for 170 is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **An amount of 145 dollars is shared in the ratio 2 to 3. The smaller share in dollars is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **Solve the system x+y=26 and x-y=14. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A triangle has base 22 and height 13. Its area is**

ANSWER _____

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 **The value in the middle of an ordered data set is**

A the mean

B the mode

C the median

D the range

Understand It with Pulse | Flag a mistake

11 **A price rises by 30 percent from 640 dollars. The increase in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **If f(x)=7x+6 and g(x)=x+2 then f(g(3)) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Two triangles are similar with a scale factor of 3. A side of length 14 in the smaller triangle has length in the larger triangle**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **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

15 **The data are 52 54 56 58 60. The mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **An item costs 475 dollars and is discounted by 50 percent. Its sale price in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Solve for x in 8x+9=49**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The x coordinate of the midpoint of (13,4) and (21,10) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A 3

B 1

C 1

D 1

Understand It with Pulse | Flag a mistake

20 **The data are 62 65 68 71 74. The mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **An arithmetic sequence starts at 8 with a common difference of 11. Its tenth term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Solve for x in 7x+8=9x+2**

ANSWER _____

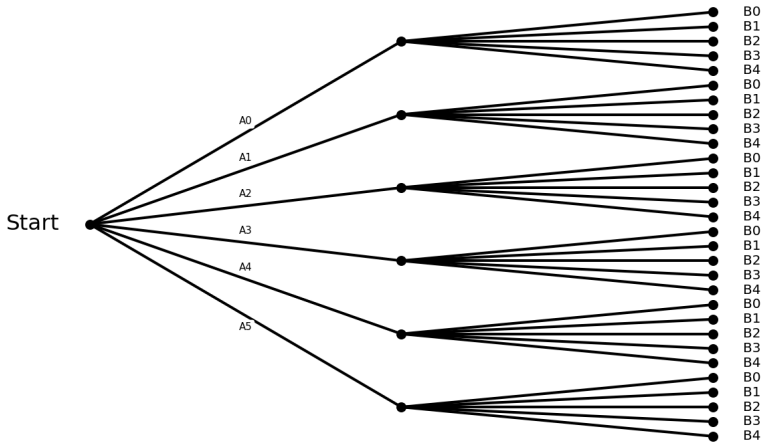
Understand It with Pulse | Flag a mistake

23 **A sector of a circle of radius 15 has an angle of 90 degrees. Using pi=3.14 its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **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

25 **The data are 58 60 62 64 70. The range is**

ANSWER

Understand It with Pulse | Flag a mistake

26 **The positive square root of 900 is**

ANSWER

Understand It with Pulse | Flag a mistake

27 **Evaluate 10x+6 when x=6**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **Two lines in the same plane that never meet are**

A perpendicular

B parallel

C intersecting

D coincident

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **The data are 54 57 59 62 68. The mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **The value of $2^7 \times 2^3$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **The larger root of $x^2-16x+55=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **Two sides of length 9 meet at 60 degrees. By the cosine law the third side is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 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

35 The data are 51 53 55 57 59. The median is

ANSWER _____

Understand It with Pulse | Flag a mistake

36 An item costs 520 dollars and is discounted by 25 percent. Its sale price in dollars is

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **The slope of the line through (0,1) and (2,15) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A rectangle has length 20 and width 9. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **The data are 56 56 59 61 63. The mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **The value of 8^3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **The y intercept of y=7x+6 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **A rectangle has length 20 and width 9. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **Two events are independent when**

A one does not affect the other

B they cannot both happen

C they always happen together

D one always follows the other

Understand It with Pulse | Flag a mistake

45 **The data are 58 60 62 64 70. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A quantity of 1250 is divided into 5 equal parts and 2 parts are taken. The amount taken is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **The value of x that satisfies $2^x = 256$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A straight angle is split into 60 degrees and another angle. The other angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **The number of combinations of 10 items taken 2 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **The data are 55 60 65 70 75. The range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	220	**18.**	17	**35.**	55
2.	12	**19.**	A	**36.**	390
3.	46	**20.**	68	**37.**	7
4.	30	**21.**	107	**38.**	180
5.	2	**22.**	3	**39.**	220
6.	58	**23.**	176.62	**40.**	59
7.	20	**24.**	30	**41.**	512
8.	143	**25.**	12	**42.**	6
9.	B	**26.**	30	**43.**	58
10.	C	**27.**	66	**44.**	A
11.	192	**28.**	B	**45.**	62
12.	41	**29.**	128	**46.**	500
13.	42	**30.**	60	**47.**	8
14.	75	**31.**	1024	**48.**	120
15.	56	**32.**	11	**49.**	45
16.	237.5	**33.**	9	**50.**	20
17.	5	**34.**	A		

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