QUEBEC MATHEMATICS, SCIENCE OPTION, SECONDARY IV · 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 **An arithmetic sequence starts at 5 with a common difference of 5. Its tenth term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The slope of the line through (2,3) and (5,15) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A rectangle has length 10 and width 7. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An event has 3 favourable outcomes out of 6 equally likely outcomes. Its probability is**

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

Understand It with Pulse | Flag a mistake

5 **The data are 25 30 35 40 45. The mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A quantity of 1540 is divided into 7 equal parts and 5 parts are taken. The amount taken is**

ANSWER _____

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7 **A line with a positive slope is**

- **A** increasing
- **B** decreasing
- **C** constant
- **D** undefined

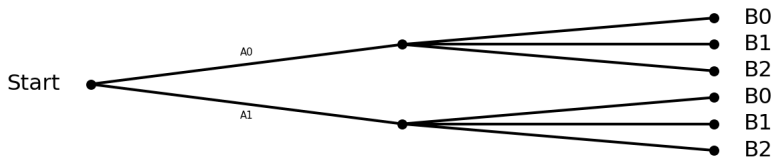
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8 **Two sides of length 8 meet at 60 degrees. By the cosine law the third side is**

ANSWER _____

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9 **A tree diagram has 2 first branches and each splits into 3 branches. The number of outcomes is**



ANSWER _____

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10 **A data set has first quartile 10 and third quartile 22. Its interquartile range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **Simple interest on 1000 dollars at 4 percent per year for 5 years is in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The larger root of $x^2-17x+66=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **The tangent of 45 degrees is**

- A 1
- B 0.5
- C 0
- D 2

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

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Scores 100 and 110 have weights 1 and 3. The weighted mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **An item costs 580 dollars and is discounted by 30 percent. Its sale price in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Solve for x in 8(x+7)=128**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **Two lines that meet at a right angle are**

A perpendicular

B parallel

C coincident

D skew

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **In a data set 18 out of 20 values are below 50. The percent below 50 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **An amount of 4200 dollars grows by 5 percent in one year. The amount after one year in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **The larger root of $x^2-17x+70=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A rectangle has length 14 and width 9. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A bag has 40 marbles and 7 are red. The number that are not red is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The data are 24 27 29 32 38. The range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **An arithmetic sequence starts at 5 with a common difference of 8. Its tenth term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **Solve for x in 5x+9=34**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **Two angles of a triangle are 92 degrees and 37 degrees. The third angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **An event has 2 favourable outcomes out of 8 equally likely outcomes. Its probability is**

A $\frac{1}{4}$

B $\frac{1}{6}$

C $\frac{1}{3}$

D $\frac{1}{2}$

Understand It with Pulse | Flag a mistake

30 **The data are 32 35 38 41 44. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **An item costs 460 dollars and is discounted by 25 percent. Its sale price in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **Solve for x in 8x+3=35**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **A rectangle has length 17 and width 6. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 A bag has 4 red marbles and 10 blue marbles. The probability of drawing a red marble is

- **A** $\frac{2}{7}$
- **B** $\frac{1}{2}$
- **C** $\frac{1}{3}$
- **D** $\frac{2}{5}$

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35 The data are 22 24 26 28 30. The median is

ANSWER _____

Understand It with Pulse | Flag a mistake

36 The positive square root of 225 is

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **Evaluate $2^4 + 5$ when the exponent is 4**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **The distance between (3,2) and (6,6) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **The data are 26 26 29 31 33. The range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **The largest of these numbers is**

A 0.45

B 0.5

C 0.41

D 0.55

Understand It with Pulse | Flag a mistake

42 **Solve for x in 4x+7=5x+4**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **Two angles of a triangle are 102 degrees and 42 degrees. The third angle in degrees is**

ANSWER _____

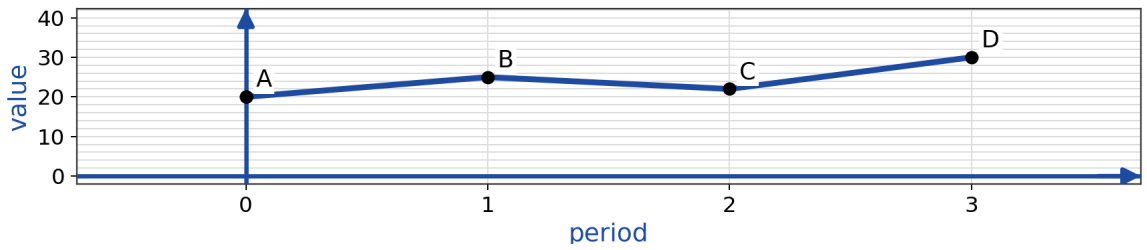
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44 The number of combinations of 6 items taken 2 at a time is

ANSWER

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45 The graph shows sales in four years. The value in the last year is



ANSWER

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46 The least common multiple of 7 and 12 is

ANSWER

Understand It with Pulse | Flag a mistake

47 The y intercept of y=7x+5 is

ANSWER

Understand It with Pulse | Flag a mistake

48 **A cube has side 7. Its surface area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **The number of permutations of 6 items taken 3 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **The data are 21 23 25 27 29. The median is**

ANSWER _____

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ANSWER KEY

1.	50	**18.**	A	**35.**	26
2.	4	**19.**	64	**36.**	15
3.	34	**20.**	90	**37.**	21
4.	A	**21.**	4410	**38.**	5
5.	35	**22.**	10	**39.**	55
6.	1100	**23.**	46	**40.**	7
7.	A	**24.**	33	**41.**	D
8.	8	**25.**	14	**42.**	3
9.	6	**26.**	77	**43.**	36
10.	12	**27.**	5	**44.**	15
11.	200	**28.**	51	**45.**	30
12.	11	**29.**	A	**46.**	84
13.	A	**30.**	38	**47.**	5
14.	26.67	**31.**	345	**48.**	294
15.	107.5	**32.**	4	**49.**	120
16.	406	**33.**	102	**50.**	25
17.	9	**34.**	A		

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