QUEBEC MATHEMATICS, CULTURAL, SOCIAL AND TECHNICAL 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 900 dollars at 10 percent per year for 2 years is in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Solve for x in 5x+8=6x+5**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A right triangle has hypotenuse 40 and one leg 24. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 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

5 The data are 42 45 48 51 54. The median is

ANSWER _____

Understand It with Pulse | Flag a mistake

6 A geometric sequence starts at 8 with a common ratio of 3. Its fourth term is

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **If f(x)=6x+5 and g(x)=x+2 then f(g(3)) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A rectangle has length 14 and width 6. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **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

10 **A regression line is y=7x+32. The predicted value when x=6 is**

ANSWER _____

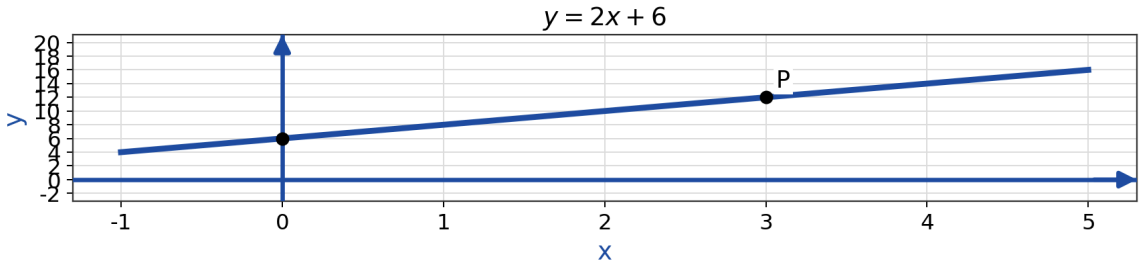
Understand It with Pulse | Flag a mistake

11 **Monthly income is 2700 dollars and monthly expenses are 2000 dollars. The amount left in dollars is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **The graph shows the line y=2x+6. The value of y when x=3 is**



ANSWER

Understand It with Pulse | Flag a mistake

13 **A straight angle is split into 38 degrees and another angle. The other angle in degrees is**

ANSWER

Understand It with Pulse | Flag a mistake

14 **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

15 **In a normal distribution about what percent of values lie within one standard deviation of the mean**

A 95

B 68

C 50

D 99

Understand It with Pulse | Flag a mistake

16 **The value of $2^6 \times 2^2$ is**

ANSWER

Understand It with Pulse | Flag a mistake

17 **Solve the system x+y=20 and x-y=10. The value of x is**

ANSWER

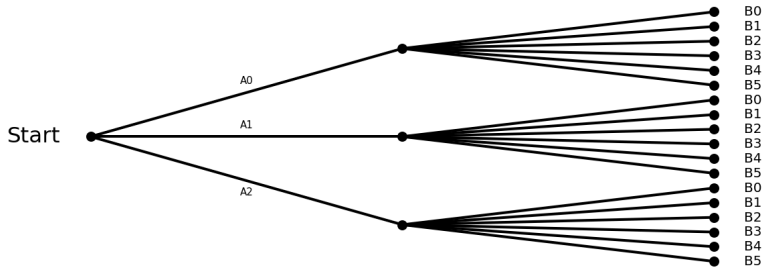
Understand It with Pulse | Flag a mistake

18 **A straight angle is split into 58 degrees and another angle. The other angle in degrees is**

ANSWER

Understand It with Pulse | Flag a mistake

19 **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

20 The data are 36 39 39 39 44. The mode is

- A 39
- B 44
- C 36
- D 41

Understand It with Pulse | Flag a mistake

21 The greatest common divisor of 45 and 10 is

ANSWER _____

Understand It with Pulse | Flag a mistake

22 The axis of symmetry of $y=x^2-7x+4$ is x equals

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A straight angle is split into 43 degrees and another angle. The other angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Scores 100 and 115 have weights 2 and 2. The weighted mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **An arithmetic sequence starts at 6 with a common difference of 5. Its tenth term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **Solve for x in 7x+4=5x+10**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **The distance between (5,1) and (8,5) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A $\frac{3}{7}$

B $\frac{1}{6}$

C $\frac{1}{3}$

D $\frac{1}{2}$

Understand It with Pulse | Flag a mistake

30 **The data are 33 35 38 40 44. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **A pack of 8 items costs 120 dollars. The cost per item in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **The slope of the line through (2,3) and (5,18) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **A cube has side 9. Its surface area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **The number of combinations of 11 items taken 3 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **The data are 32 34 36 38 40. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **The value of 5^{10} is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **The y intercept of y=8x+3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A circle has radius 11. Using pi=3.14 its circumference is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **The number of permutations of 9 items taken 3 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **The data are 36 36 39 41 43. The range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **The positive square root of 1089 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **The larger root of $x^2-14x+45=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **An observer 33 metres from a tower sees its top at 45 degrees. The tower height in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **Two events are independent when**

A one does not affect the other

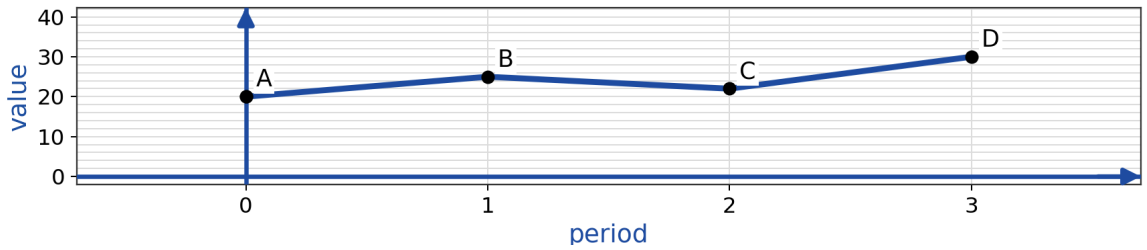
B they cannot both happen

C they always happen together

D one always follows the other

Understand It with Pulse | Flag a mistake

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



ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

47 **The sum of the roots of $x^2-17x+66=0$ is**

ANSWER

Understand It with Pulse | Flag a mistake

48 **Two angles of a triangle are 48 degrees and 83 degrees. The third angle in degrees is**

ANSWER

Understand It with Pulse | Flag a mistake

49 **The number of permutations of 13 items taken 2 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **The data are 36 36 39 41 43. The mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	180	**18.**	122	**35.**	36
2.	3	**19.**	18	**36.**	9765625
3.	32	**20.**	A	**37.**	3
4.	A	**21.**	5	**38.**	69.08
5.	48	**22.**	3.5	**39.**	504
6.	216	**23.**	137	**40.**	7
7.	35	**24.**	128	**41.**	33
8.	84	**25.**	107.5	**42.**	9
9.	420	**26.**	51	**43.**	33
10.	74	**27.**	3	**44.**	A
11.	700	**28.**	5	**45.**	35
12.	12	**29.**	A	**46.**	512
13.	142	**30.**	38	**47.**	17
14.	65	**31.**	15	**48.**	49
15.	B	**32.**	5	**49.**	156
16.	256	**33.**	486	**50.**	39
17.	15	**34.**	165		

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