QUEBEC MATHEMATICS, TECHNICAL AND SCIENTIFIC 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 **The greatest common divisor of 25 and 7 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Solve the system x+y=18 and x-y=6. The value of x is**

ANSWER _____

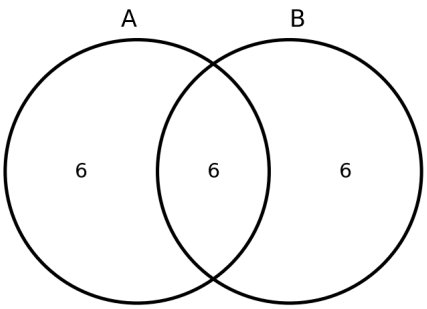
Understand It with Pulse | Flag a mistake

3 **A circle has radius 8. Using pi=3.14 its circumference is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The diagram shows sets A and B with 6 in A only 6 in both and 6 in B only. The number in A or B is**



ANSWER

Understand It with Pulse | Flag a mistake

5 **In a data set 15 out of 20 values are below 50. The percent below 50 is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **The value of 5^3 is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **Evaluate 4x+2 when x=5**

ANSWER _____

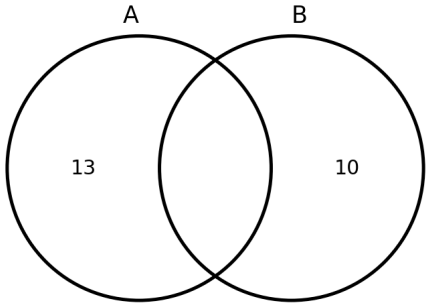
Understand It with Pulse | Flag a mistake

8 **Two triangles are similar with a scale factor of 4. A side of length 9 in the smaller triangle has length in the larger triangle**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The diagram shows sets A and B with 13 in A only and 10 in B only. There are 27 in total. The number in both A and B is**



ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The data are 12 14 16 18 20. The range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **An amount of 1300 dollars grows by 10 percent in one year. The amount after one year in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Simplify 3x+4x**

A 12x

B 7x

C 1x

D x^7

Understand It with Pulse | Flag a mistake

13 **Two lines that never meet are**

A parallel

B perpendicular

C intersecting

D coincident

Understand It with Pulse | Flag a mistake

14 **An event with probability one quarter has a prize of 220 dollars. Its expected value in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A data set has first quartile 13 and third quartile 27. Its interquartile range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A quantity of 330 is divided into 3 equal parts and 2 parts are taken. The amount taken is**

ANSWER

Understand It with Pulse | Flag a mistake

17 **The larger root of $x^2-9x+14=0$ is**

ANSWER

Understand It with Pulse | Flag a mistake

18 **Two triangles are similar with a scale factor of 2. A side of length 7 in the smaller triangle has length in the larger triangle**

ANSWER

Understand It with Pulse | Flag a mistake

19 **The number of permutations of 6 items taken 2 at a time is**

ANSWER

Understand It with Pulse | Flag a mistake

20 **The data are 13 15 18 20 24. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **An amount of 357 dollars is shared in the ratio 3 to 4. The smaller share in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Solve for x in 3x+6=4x+3**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A right triangle has hypotenuse 20 and one leg 12. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A data set has first quartile 9 and third quartile 21. Its interquartile range is**

ANSWER _____

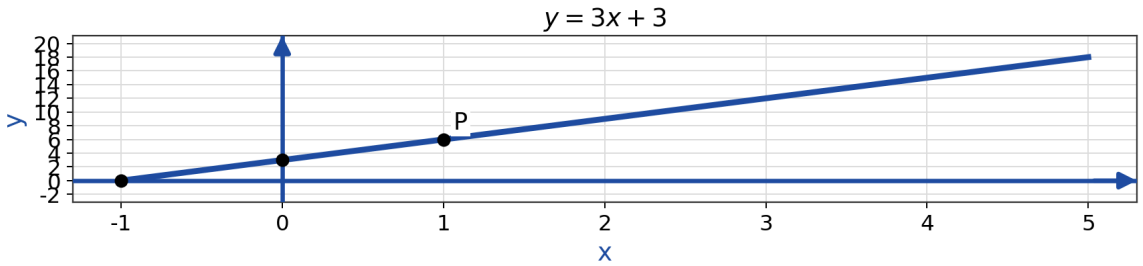
Understand It with Pulse | Flag a mistake

26 **An arithmetic sequence starts at 4 with a common difference of 7. Its tenth term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **The graph shows the line y=3x+3. The value of y when x=1 is**



ANSWER

Understand It with Pulse | Flag a mistake

28 **A rectangular prism has length 6 width 6 and height 5. Its volume is**

ANSWER

Understand It with Pulse | Flag a mistake

29 **A bag has 6 red marbles and 6 blue marbles. The probability of drawing a red marble is**

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

Understand It with Pulse | Flag a mistake

30 **The data are 12 14 16 18 20. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **The greatest common divisor of 37 and 10 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **Solve the system x+y=20 and x-y=4. The value of x is**

ANSWER _____

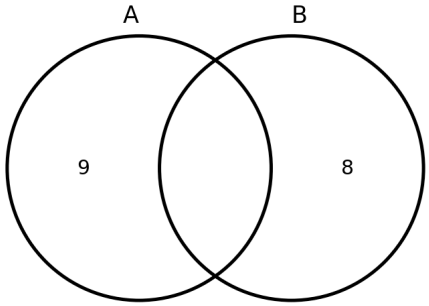
Understand It with Pulse | Flag a mistake

33 **Two angles of a triangle are 91 degrees and 36 degrees. The third angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **The diagram shows sets A and B with 9 in A only and 8 in B only. There are 24 in total. The number in both A and B is**



ANSWER _____

Understand It with Pulse | Flag a mistake

35 **The data are 15 20 25 30 35. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **The value of 3^{10} is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **The larger root of $x^2-7x+12=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A rectangle has length 21 and width 7. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

40 **The data are 16 16 19 21 23. The median is**

ANSWER

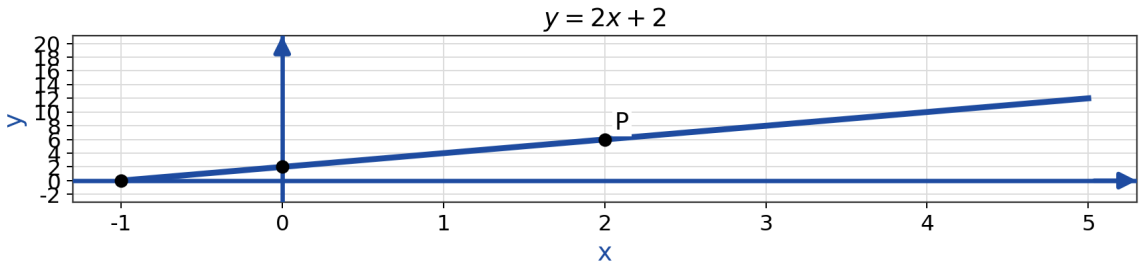
Understand It with Pulse | Flag a mistake

41 **An arithmetic sequence starts at 4 with a common difference of 10. Its tenth term is**

ANSWER

Understand It with Pulse | Flag a mistake

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



ANSWER

Understand It with Pulse | Flag a mistake

43 A rectangular prism has length 5 width 4 and height 6. Its volume is

ANSWER

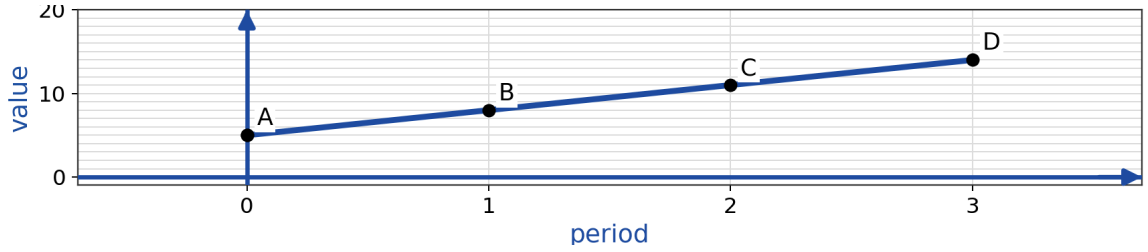
Understand It with Pulse | Flag a mistake

44 The number of combinations of 5 items taken 2 at a time is

ANSWER

Understand It with Pulse | Flag a mistake

45 The graph shows a quantity over four periods. The increase from the first to the last period is



ANSWER

Understand It with Pulse | Flag a mistake

46 The positive square root of 441 is

ANSWER

Understand It with Pulse | Flag a mistake

47 **The larger root of $x^2-7x+10=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **The x coordinate of the midpoint of (3,4) and (11,10) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **The data are 22 25 28 31 34. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	1	**18.**	14	**35.**	25
2.	12	**19.**	30	**36.**	59049
3.	50.24	**20.**	18	**37.**	4
4.	18	**21.**	153	**38.**	56
5.	75	**22.**	3	**39.**	15
6.	125	**23.**	16	**40.**	19
7.	22	**24.**	16	**41.**	94
8.	36	**25.**	12	**42.**	6
9.	4	**26.**	67	**43.**	120
10.	8	**27.**	6	**44.**	10
11.	1430	**28.**	180	**45.**	9
12.	B	**29.**	B	**46.**	21
13.	A	**30.**	16	**47.**	5
14.	55	**31.**	1	**48.**	7
15.	14	**32.**	12	**49.**	84
16.	220	**33.**	53	**50.**	28
17.	7	**34.**	7		

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