QUEBEC MATHEMATICS, CULTURAL, SOCIAL AND TECHNICAL 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 **A price rises by 50 percent from 300 dollars. The increase in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Simplify 3x+3x**

A 6x

B 9x

C 0x

D x^6

Understand It with Pulse | Flag a mistake

3 **A rectangle has length 15 and width 4. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The number of combinations of 4 items taken 2 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Scores 70 and 85 have weights 2 and 2. The weighted mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Monthly income is 3600 dollars and monthly expenses are 2900 dollars. The amount left in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Solve for x in 2x+3=4x+-3**

ANSWER

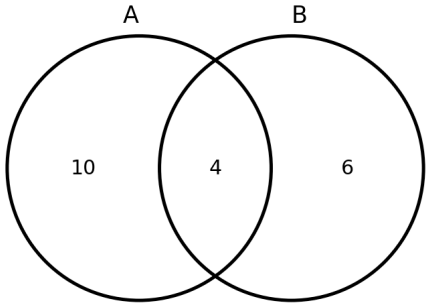
Understand It with Pulse | Flag a mistake

8 **Two triangles are similar with a scale factor of 3. 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 10 in A only 4 in both and 6 in B only. The number in A or B is**



ANSWER

Understand It with Pulse | Flag a mistake

10 **A data set has first quartile 8 and third quartile 20. Its interquartile range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **An amount of 150 dollars is shared in the ratio 3 to 2. The smaller share in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A product sells for 120 dollars and costs 40 dollars to make. The profit on one unit in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Two dice are rolled. The number of outcomes giving the stated sum is 6 out of 36. The number of outcomes not giving it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Survey responses are 10 20 30 40. The mean response is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A quantity of 800 is divided into 8 equal parts and 7 parts are taken. The amount taken is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Solve the system x+y=10 and x-y=2. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The sine of 30 degrees is**

A 0.5

B 1

C 0.87

D 0.71

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **Scores 80 and 90 have weights 1 and 3. The weighted mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The least common multiple of 8 and 12 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **The slope of the line through (1,2) and (3,8) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A rectangle has length 20 and width 6. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A coin is tossed 3 times. The number of possible outcomes is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A data set has first quartile 5 and third quartile 15. Its interquartile range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **An amount of 420 dollars is shared in the ratio 4 to 3. The smaller share in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **Solve for x in 4x+5=25**

ANSWER _____

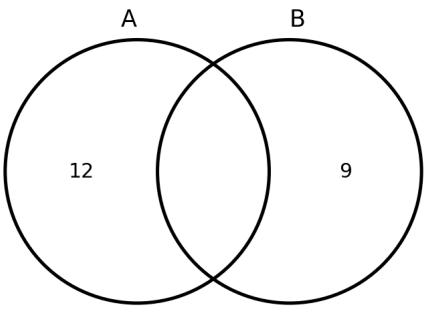
Understand It with Pulse | Flag a mistake

28 **A circle has radius 10. Using pi=3.14 its circumference is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **The diagram shows sets A and B with 12 in A only and 9 in B only. There are 24 in total. The number in both A and B is**



ANSWER

Understand It with Pulse | Flag a mistake

30 **The data are 5 10 15 20 25. The mean is**

ANSWER

Understand It with Pulse | Flag a mistake

31 **An arithmetic sequence starts at 3 with a common difference of 8. Its tenth term is**

ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **A rectangle has length 9 and width 6. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **The number of permutations of 7 items taken 2 at a time is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **The data are 8 10 12 14 20. The mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **The least common multiple of 3 and 9 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **Solve for x in 6x+1=25**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A straight angle is split into 35 degrees and another angle. The other angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **In a lottery 500 tickets are sold and 100 win a prize. The number of losing tickets is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **The data are 2 4 6 8 10. The range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **An item costs 360 dollars and is discounted by 25 percent. Its sale price in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **Solve for x in 2x+9=23**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **The x coordinate of the midpoint of (2,4) and (8,10) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **In a lottery 200 tickets are sold and 50 win a prize. The number of losing tickets is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **The data are 2 4 4 4 5 5 7 9. The standard deviation is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **An item costs 120 dollars and is discounted by 10 percent. Its sale price in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **Solve for x in 2x+3=11**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **Two angles of a triangle are 70 degrees and 60 degrees. The third angle in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **The data are 5 10 15 20 25. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 150
2. A
3. 38
4. 6
5. 77.5
6. 700
7. 3
8. 27
9. 20
10. 12
11. 60
12. 80
13. 7
14. 30
15. 25
16. 700
17. 6
18. A
19. 120
20. 87.5
21. 24
22. 3
23. 52
24. 8
25. 10
26. 180
27. 5
28. 62.8
29. 3
30. 15
31. 75
32. 10
33. 30
34. 42
35. 12.8
36. 9
37. 4
38. 145
39. 400
40. 8
41. 270
42. 7
43. 5
44. 150
45. 2
46. 108
47. 4
48. 50
49. 16
50. 15

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