QUEBEC MATHEMATICS, TECHNICAL AND SCIENTIFIC 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 **A price rises by 40 percent from 280 dollars. The increase in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Solve for x in 7x+6=9x+0**

ANSWER _____

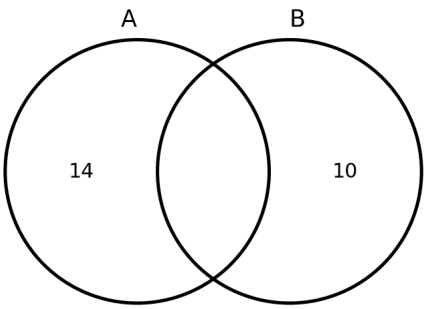
Understand It with Pulse | Flag a mistake

3 **Two triangles are similar with a scale factor of 2. A side of length 10 in the smaller triangle has length in the larger triangle**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The diagram shows sets A and B with 14 in A only and 10 in B only. There are 32 in total. The number in both A and B is**



ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The data are 44 47 49 52 58. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Simple interest on 1000 dollars at 10 percent per year for 2 years is in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 The axis of symmetry of $y=x^2-6x+7$ is x equals

ANSWER _____

Understand It with Pulse | Flag a mistake

8 A triangle has base 20 and height 12. Its area is

ANSWER _____

Understand It with Pulse | Flag a mistake

9 An event has 1 favourable outcome out of 8 equally likely outcomes. Its probability is

A $\frac{1}{8}$

B $\frac{1}{6}$

C $\frac{1}{3}$

D $\frac{1}{2}$

Understand It with Pulse | Flag a mistake

10 **In a data set 19 out of 20 values are below 50. The percent below 50 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **The greatest common divisor of 76 and 22 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The slope of the line through (1,2) and (3,16) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **The distance between (5,2) and (8,6) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **The number of combinations of 13 items taken 2 at a time 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 68

B 95

C 50

D 99

Understand It with Pulse | Flag a mistake

16 **The positive square root of 529 is**

ANSWER

Understand It with Pulse | Flag a mistake

17 **Solve for x in 8x+5=6x+11**

ANSWER _____

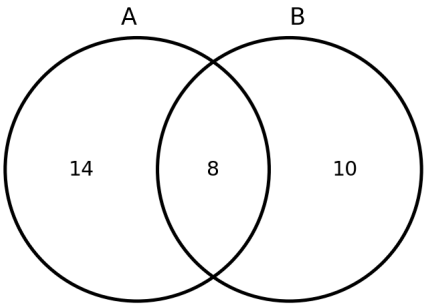
Understand It with Pulse | Flag a mistake

18 **A rectangle has length 24 and width 10. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The diagram shows sets A and B with 14 in A only 8 in both and 10 in B only. The number in A or B is**



ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The data are 43 45 48 50 54. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A quantity of 420 is divided into 3 equal parts and 2 parts are taken. The amount taken is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **The axis of symmetry of $y=x^2-7x+6$ is x equals**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **The x coordinate of the midpoint of (10,4) and (16,10) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **The number of permutations of 12 items taken 3 at a time is**

ANSWER

Understand It with Pulse | Flag a mistake

25 **In a data set 13 out of 20 values are below 50. The percent below 50 is**

ANSWER

Understand It with Pulse | Flag a mistake

26 **A quantity of 840 is divided into 6 equal parts and 5 parts are taken. The amount taken is**

ANSWER

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

28 **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

29 **A coin is tossed 8 times. The number of possible outcomes is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **The data are 45 50 55 60 65. The median is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **The value of 9^3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **Evaluate 7x+5 when x=5**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **The x coordinate of the midpoint of (9,4) and (17,10) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **A bag has 90 marbles and 29 are red. The number that are not red is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A regression line is y=8x+42. The predicted value when x=6 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **An amount of 4400 dollars grows by 5 percent in one year. The amount after one year in dollars is**

ANSWER

Understand It with Pulse | Flag a mistake

37 **The y intercept of y=6x+11 is**

ANSWER

Understand It with Pulse | Flag a mistake

38 **A circle has radius 6. Using pi=3.14 its area is**

ANSWER

Understand It with Pulse | Flag a mistake

39 **Two dice are rolled. The number of outcomes giving the stated sum is 7 out of 36. The number of outcomes not giving it is**

ANSWER

Understand It with Pulse | Flag a mistake

40 **The data are 48 50 52 54 60. The range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A part measures 190 millimetres with a tolerance of 6 millimetres. The largest allowed size in millimetres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **Solve for x in 10x+5=45**

ANSWER _____

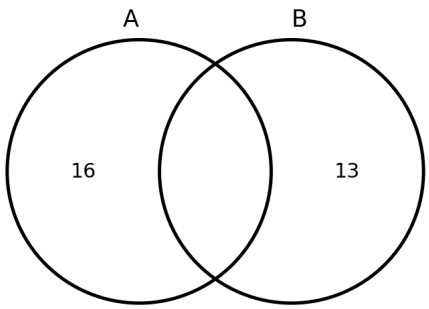
Understand It with Pulse | Flag a mistake

43 **A rectangle has length 13 and width 10. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

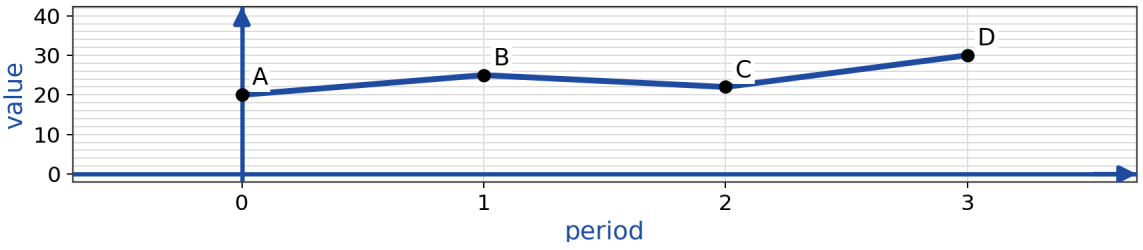
44 **The diagram shows sets A and B with 16 in A only and 13 in B only. There are 36 in total. The number in both A and B is**



ANSWER

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 **An item costs 360 dollars and is discounted by 20 percent. Its sale price in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **The y intercept of y=7x+8 is**

ANSWER _____

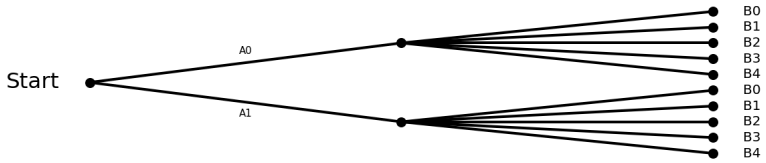
Understand It with Pulse | Flag a mistake

48 **Two triangles are similar with a scale factor of 5. A side of length 19 in the smaller triangle has length in the larger triangle**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A tree diagram has 2 first branches and each splits into 5 branches. The number of outcomes is**



ANSWER

Understand It with Pulse | Flag a mistake

50 **A data set has first quartile 16 and third quartile 30. Its interquartile range is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	112	**18.**	240	**35.**	90
2.	3	**19.**	32	**36.**	4620
3.	20	**20.**	48	**37.**	11
4.	8	**21.**	280	**38.**	113.04
5.	49	**22.**	3.5	**39.**	29
6.	200	**23.**	13	**40.**	12
7.	3	**24.**	1320	**41.**	196
8.	120	**25.**	65	**42.**	4
9.	A	**26.**	700	**43.**	130
10.	95	**27.**	5	**44.**	7
11.	2	**28.**	9	**45.**	40
12.	7	**29.**	256	**46.**	288
13.	5	**30.**	55	**47.**	8
14.	78	**31.**	729	**48.**	95
15.	A	**32.**	40	**49.**	10
16.	23	**33.**	13	**50.**	14
17.	3	**34.**	61		

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