NEWFOUNDLAND AND LABRADOR MATHEMATICS 2202 · 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 rectangular prism measures 4 by 4 by 5 cm. Its surface area, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **From 40 m away, the angle of elevation to the top of a pole is 60°. The height of the pole, to one decimal place, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A price rises from $200 to $250. The percent increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Start from the definition. Two parallel lines have slopes that are**

- A opposite reciprocals
- B both zero
- C both undefined
- D equal

Understand It with Pulse | Flag a mistake

5 **The range of 12, 3, 19, 6 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Think about the principle. Surface area measures**

- **A** the total area of all faces of a solid
- **B** the space inside a solid
- **C** the perimeter of a face
- **D** the length of an edge

Understand It with Pulse | Flag a mistake

7 **The right triangle shown has legs 5 and 12. Its hypotenuse is**

- **A** 17
- **B** 10
- **C** 60
- **D** 13

Understand It with Pulse | Flag a mistake

8 **A loan of $1800 is repaid in 12 equal monthly payments, ignoring interest. Each payment, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The slope of y = 3x - 1 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **In a survey, 45 of 180 people chose an option. The percent who chose it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **Think about the rule. Which unit measures volume?**

- A cm^2
- B centimetre
- C cm^3
- D m^2 per second

Understand It with Pulse | Flag a mistake

12 **Think about the rule. A scale diagram keeps the shape of the original but changes its**

- A angles
- B shape
- C size
- D number of sides

Understand It with Pulse | Flag a mistake

13 **Review the concept. Compound interest differs from simple interest because interest is earned on**

A the principal only

B fees only

C taxes only

D interest already earned

Understand It with Pulse | Flag a mistake

14 **Consider the principle in general. The slope of a horizontal line is**

A 1

B undefined

C negative

D 0

Understand It with Pulse | Flag a mistake

15 **In an ordered data set of 11 values, the median is the value in position number**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A cylinder has radius 4 cm and height 6 cm. Its volume, to one decimal place, in cm³, using pi equals 3.14, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **In a right triangle, the hypotenuse is 14 and an angle is 45°. The opposite side, to one decimal place, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **Simple interest on $1200 at 6% per year for 2 years, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The slope of the line through (0, 0) and (3, 9) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The mean of 5, 5, 10, 20 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A sphere has radius 5 cm. Its surface area, to one decimal place, in cm², using pi equals 3.14, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Consider the concept in general. In a right triangle, sine of an angle equals**

A adjacent divided by hypotenuse

B opposite divided by adjacent

C opposite divided by hypotenuse

D hypotenuse divided by opposite

Understand It with Pulse | Flag a mistake

23 **A $80 purchase has tax of 15%. The total, in dollars, is**

ANSWER _____

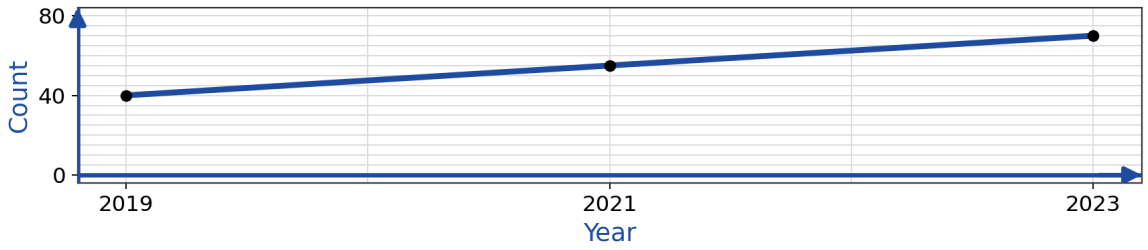
Understand It with Pulse | Flag a mistake

24 **A total of $36 for 9 items gives a unit rate, in dollars per item, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Consider the concept in general. The graph shows a count over time. The count in 2021 was**



- **A** 40
- **B** 70
- **C** 55
- **D** 80

Understand It with Pulse | Flag a mistake

26 **A container holds 5000 cm³ of water. Its capacity, in litres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **On a map with scale 1 to 20000, a distance of 10 cm represents, in kilometres, a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **At an exchange rate of 1 US dollar equals 1.4 Canadian dollars, the value in Canadian dollars of $50 US is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **y varies directly with x , and y = 5x . When x = 7 , y equals**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **Apply the principle. A sample is**

A the whole population

B a single data value

C a part of a population chosen for study

D a graph of the data

Understand It with Pulse | Flag a mistake

31 **Review the principle. Which unit measures volume?**

A cm^3

B cm^2

C centimetre

D m^2 per second

Understand It with Pulse | Flag a mistake

32 **Consider the meaning of the term. In a right triangle, sine of an angle equals**

A opposite divided by hypotenuse

B adjacent divided by hypotenuse

C opposite divided by adjacent

D hypotenuse divided by opposite

Understand It with Pulse | Flag a mistake

33 **A loan of $2400 is repaid in 24 equal monthly payments, ignoring interest. Each payment, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **The slope of y = -2x + 6 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **In a survey, 20 of 80 people chose an option. The percent who chose it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **Think about the property. Which unit measures volume?**

A cm^2

B cm^3

C centimetre

D m^2 per second

Understand It with Pulse | Flag a mistake

37 **Think about the principle. If lengths are scaled by a factor of 2, areas are scaled by a factor of**

A 4

B 2

C 8

D 6

Understand It with Pulse | Flag a mistake

38 **Think about the property. A budget is a plan that compares**

A assets and debts only

B income and expenses

C prices and weights

D hours and wages only

Understand It with Pulse | Flag a mistake

39 **Think about the property. The slope of a vertical line is**

A 0

B undefined

C 1

D negative

Understand It with Pulse | Flag a mistake

40 **Think about the property. In an ordered data set of 9 values, the median is the value in position number**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A cylinder has radius 2 cm and height 7 cm. Its volume, to one decimal place, in cm³, using pi equals 3.14, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **In a right triangle, the hypotenuse is 16 and an angle is 60°. The opposite side, to one decimal place, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **Simple interest on $800 at 4% per year for 3 years, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **The slope of the line through (0, 0) and (5, 10) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **The mean of 4, 7, 9, 12 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A sphere has radius 4 cm. Its surface area, to one decimal place, in cm², using pi equals 3.14, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **Consider the statement in general. In a right triangle, sine of an angle equals**

A adjacent divided by hypotenuse

B opposite divided by hypotenuse

C opposite divided by adjacent

D hypotenuse divided by opposite

Understand It with Pulse | Flag a mistake

48 **A $400 purchase has tax of 13%. The total, in dollars, is**

ANSWER _____

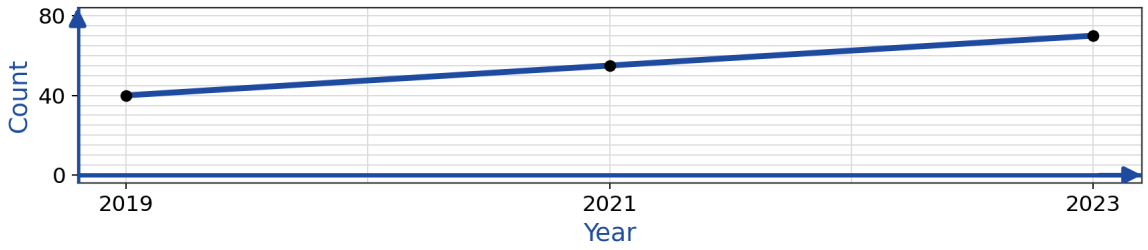
Understand It with Pulse | Flag a mistake

49 **A total of $25 for 5 items gives a unit rate, in dollars per item, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **Consider the statement in general. The graph shows a count over time. The count in 2021 was**



A 40

B 55

C 70

D 80

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	112	**18.**	144	**35.**	25
2.	69.3	**19.**	3	**36.**	B
3.	25	**20.**	10	**37.**	A
4.	D	**21.**	314	**38.**	B
5.	16	**22.**	C	**39.**	B
6.	A	**23.**	92	**40.**	5
7.	D	**24.**	4	**41.**	87.9
8.	150	**25.**	C	**42.**	13.9
9.	3	**26.**	5	**43.**	96
10.	25	**27.**	2	**44.**	2
11.	C	**28.**	70	**45.**	8
12.	C	**29.**	35	**46.**	201
13.	D	**30.**	C	**47.**	B
14.	D	**31.**	A	**48.**	452
15.	6	**32.**	A	**49.**	5
16.	301.4	**33.**	100	**50.**	B
17.	9.9	**34.**	-2		

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