NEWFOUNDLAND AND LABRADOR MATHEMATICS 3202 · 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 **0 degrees Celsius is, in degrees Fahrenheit**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The mean of the data 4, 7, 9, 12 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A phone plan costs 20 dollars per month plus 0.5 dollars per minute. For 100 minutes, the cost is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A vehicle costs 30000 dollars before 15 percent sales tax. The total cost is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A right triangle has hypotenuse 5 and one leg 3 . The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A rectangle has length 9 units and width 4 units. Its perimeter is, in units**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A data set has 40 values. The value 12 occurs 10 times. Its relative frequency is, as a decimal**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The equation of the line with slope 2 through (1, 3) is**

A y = 2x + 1

B y = 2x + 3

C y = 2x

D y = 2x + 4

Understand It with Pulse | Flag a mistake

9 **A lease requires a down payment of 1500 dollars plus 48 monthly payments of 250 dollars. The total cost is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The point (1, 5) is translated -3 units right and 2 units up**

- **A** (4, 7)
- **B** (-2, 7)
- **C** (-2, 3)
- **D** (1, 5)

Understand It with Pulse | Flag a mistake

11 **A cylinder has radius 2 units and height 5 units. Using π = 3.14 , its volume is, in units³, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A graph with a broken vertical axis can be misleading because it**

A hides the data

B changes the mean

C exaggerates small differences

D removes outliers

Understand It with Pulse | Flag a mistake

13 **If y = 3x - 4 , then the x intercept is, as a value of x , to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A trip of 500 kilometres uses 8 litres per 100 kilometres. Fuel costs 1.5 dollars per litre. The fuel cost is, in dollars, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 In a right triangle with opposite side 5 and adjacent side 12 , tan θ is

- **A** $\frac{12}{5}$
- **B** $\frac{5}{12}$
- **C** $\frac{5}{13}$
- **D** $\frac{12}{13}$

Understand It with Pulse | Flag a mistake

16 A rectangle has length 12 units and width 7 units. Its area is, in units²

ANSWER _____

Understand It with Pulse | Flag a mistake

17 The mode of 1, 2, 2, 3, 4, 4, 4 is

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A phone plan costs 15 dollars per month plus 0.25 dollars per minute. For 200 minutes, the cost is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Annual insurance is 900 dollars and annual registration is 150 dollars. The combined annual cost is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A figure has area 12 units². Under an enlargement with scale factor 3 , the image area is, in units²**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A circle has radius 8 units. Using π = 3.14 , its circumference is, in units, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **The median of the data 4, 6, 10, 14 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **The equation of the line with slope 3 through (2, 1) is**

A y = 3x - 5

B y = 3x + 1

C y = 3x

D y = 3x + 3

Understand It with Pulse | Flag a mistake

24 **Buying a vehicle costs 30000 dollars over a period and leasing costs 22000 dollars over the same period. The cheaper option is**

A buying

B leasing

C they cost the same

D neither

Understand It with Pulse | Flag a mistake

25 **A triangle has an exterior angle of 130 degrees and one remote interior angle of 55 degrees. The other remote interior angle is, in degrees**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **A bag holds 5 winning tickets out of 12 tickets in total. The probability of drawing a winning ticket is**

- **A** $\frac{1}{2}$
- **B** $\frac{7}{12}$
- **C** $\frac{5}{12}$
- **D** $\frac{1}{12}$

Understand It with Pulse | Flag a mistake

27 **A quantity changes from 200 to 150 . The percent change is, in percent**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **A phone plan costs 30 dollars per month plus 0.1 dollars per minute. For 150 minutes, the cost is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **Monthly payments of 500 dollars for 24 months total, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **A right triangle has hypotenuse 25 and one leg 7 . The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **-40 degrees Celsius is, in degrees Fahrenheit**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **A quantity changes from 40 to 50 . The percent change is, in percent**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 A line parallel to a line of slope -4 has slope

- **A** 4
- **B** -4
- **C** $\frac{1}{4}$
- **D** 0

Understand It with Pulse | Flag a mistake

34 Fuel costs 1.50 dollars per litre. 40 litres cost, in dollars

ANSWER _____

Understand It with Pulse | Flag a mistake

35 A figure has a side length of 3 units. Under an enlargement with scale factor 4 , the image side length is, in units

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **Using 1 inch = 2.54 centimetres, 10 inches is, in centimetres**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **The range of the data 5, 9, 14, 22 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **The slope of the line through (2, 3) and (6, 11) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A lease requires a down payment of 500 dollars plus 36 monthly payments of 200 dollars. The total cost is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

41 **12 metres is, in centimetres**

ANSWER

Understand It with Pulse | Flag a mistake

42 **The mean of the data 2, 4, 6, 8, 10 is**

ANSWER

Understand It with Pulse | Flag a mistake

43 **The slope of the line y = 5x - 2 is**

A 5

B -2

C 2

D -5

Understand It with Pulse | Flag a mistake

44 **A lease allows 12000 kilometres per year. After driving 14500 kilometres, the excess charge at 0.30 dollars per kilometre is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 The rotation of the point (2, 5) by 90° clockwise about the origin is

- A (-5, 2)
- B (-2, -5)
- C (2, 5)
- D (5, -2)

Understand It with Pulse | Flag a mistake

46 On a map, 1 centimetre represents 250 metres. A distance of 3 centimetres on the map is, in metres

ANSWER _____

Understand It with Pulse | Flag a mistake

47 The range of 100, 150, 200 is

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **The slope of the line through (0, 5) and (10, 25) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A vehicle costs 15000 dollars and has a salvage value of 3000 dollars after 4 years. Straight line depreciation per year is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **The rotation of the point (-5, 2) by 90° counterclockwise about the origin is**

A (2, 5)

B (-2, -5)

C (5, -2)

D (-5, 2)

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	32	**18.**	65	**35.**	12
2.	8	**19.**	1050	**36.**	25.4
3.	70	**20.**	108	**37.**	17
4.	34500	**21.**	50.24	**38.**	2
5.	4	**22.**	8	**39.**	7700
6.	26	**23.**	A	**40.**	50
7.	0.25	**24.**	B	**41.**	1200
8.	A	**25.**	75	**42.**	6
9.	13500	**26.**	C	**43.**	A
10.	B	**27.**	-25	**44.**	750
11.	62.8	**28.**	45	**45.**	D
12.	C	**29.**	12000	**46.**	750
13.	1.33	**30.**	24	**47.**	100
14.	60	**31.**	-40	**48.**	2
15.	B	**32.**	25	**49.**	3000
16.	84	**33.**	B	**50.**	B
17.	4	**34.**	60		

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