NOVA SCOTIA MATHEMATICS AT WORK 12 · FINAL EXAM

Final Exam — Practice Test

Nova Scotia Mathematics at Work 12 • 50 questions

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 **Convert 1 metre and 150 centimetres to centimetres, giving a whole number.**

ANSWER _____

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2 **Find the mean of 2, 4, 6, 8, and 10.**

ANSWER _____

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3 **Find the slope of the line through (0, 3) and (3, 12).**

ANSWER _____

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4 **A right triangle has legs 5 and 12. Find the hypotenuse.**

ANSWER _____

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5 **A vehicle uses 10 litres per 100 kilometres and fuel costs 160 cents per litre. Find the fuel cost, in dollars, for 300 kilometres.**

ANSWER _____

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6 **Convert 3 metres and 150 centimetres to centimetres, giving a whole number.**

ANSWER _____

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7 **Find the mean of 6, 10, 14, 18, and 22.**

ANSWER _____

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8 **Find the slope of the line through (0, 4) and (2, 10).**

ANSWER _____

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9 **A right triangle has legs 7 and 24. Find the hypotenuse.**

ANSWER _____

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10 **A vehicle uses 9 litres per 100 kilometres and fuel costs 140 cents per litre. Find the fuel cost, in dollars, for 200 kilometres.**

ANSWER _____

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11 **Convert 4 metres and 250 centimetres to centimetres, giving a whole number.**

ANSWER _____

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12 **Find the mean of 9, 12, 15, 18, and 21.**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Find the slope of the line through (0, 2) and (6, 14).**

ANSWER _____

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14 **A right triangle has legs 9 and 40. Find the hypotenuse.**

ANSWER _____

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15 **A vehicle uses 5 litres per 100 kilometres and fuel costs 160 cents per litre. Find the fuel cost, in dollars, for 180 kilometres.**

ANSWER _____

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16 **One kilogram equals**

A 100 grams

B 10 grams

C 1000 grams

D 10000 grams

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17 **The range of a data set is**

A largest plus smallest

B largest divided by smallest

C smallest divided by largest

D largest minus smallest

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18 **A horizontal line has slope**

A 1

B undefined

C -1

D 0

Understand It with Pulse | Flag a mistake

19 **The sum of interior angles of a triangle is**

A 180 degrees

B 90 degrees

C 360 degrees

D 270 degrees

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20 **A vehicle uses 8 litres of fuel per 100 kilometres. How much fuel does it use to travel 300 kilometres?**

- A 24 litres
- B 8 litres
- C 100 litres
- D 300 litres

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21 **The area of a rectangle is**

- A length plus width
- B 2 times length plus width
- C length divided by width
- D length times width

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22 **The mode of a data set is**

A the middle value

B the average

C the most common value

D the range

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23 **The y intercept is the point where a line crosses**

A the x axis

B the origin only

C another line

D the y axis

Understand It with Pulse | Flag a mistake

24 **A rotation turns a shape**

A around a fixed point

B across a line

C to a larger size

D to a smaller size

Understand It with Pulse | Flag a mistake

25 **A fixed vehicle cost is a cost that**

A does not change with distance driven

B rises with every kilometre

C is paid per litre of fuel

D depends on speed only

Understand It with Pulse | Flag a mistake

26 **Probability is found by dividing favourable outcomes by**

- A unfavourable outcomes
- B the number of trials
- C total possible outcomes
- D 100

Understand It with Pulse | Flag a mistake

27 **A negative correlation means as one variable increases, the other**

- A tends to increase
- B stays the same
- C becomes zero
- D tends to decrease

Understand It with Pulse | Flag a mistake

28 **The slope between two points is**

A rise over run

B run over rise

C rise plus run

D rise times run

Understand It with Pulse | Flag a mistake

29 **For angle A in a right triangle, cos A equals**

A adjacent over hypotenuse

B opposite over hypotenuse

C opposite over adjacent

D hypotenuse over adjacent

Understand It with Pulse | Flag a mistake

30 **To find total fuel cost, multiply litres used by**

- A price per litre
- B distance driven
- C speed
- D tank size

Understand It with Pulse | Flag a mistake

31 **Convert 2 metres and 150 centimetres to centimetres, giving a whole number.**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **Find the mean of 3, 9, 15, 21, and 27.**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **Find the slope of the line through (2, 8) and (6, 20).**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **A right triangle has legs 16 and 30. Find the hypotenuse.**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A vehicle uses 10 litres per 100 kilometres and fuel costs 150 cents per litre. Find the fuel cost, in dollars, for 200 kilometres.**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **Convert 6 metres and 250 centimetres to centimetres, giving a whole number.**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **Find the mean of 14, 21, 28, 35, and 42.**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **Find the slope of the line through (1, 3) and (5, 19).**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A right triangle has legs 21 and 28. Find the hypotenuse.**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **A vehicle uses 8 litres per 100 kilometres and fuel costs 140 cents per litre. Find the fuel cost, in dollars, for 500 kilometres.**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **To convert grams to kilograms, you**

A multiply by 1000

B divide by 100

C divide by 1000

D multiply by 100

Understand It with Pulse | Flag a mistake

42 **A positive correlation means as one variable increases, the other**

A tends to decrease

B stays the same

C tends to increase

D becomes zero

Understand It with Pulse | Flag a mistake

43 **The x intercept is the point where y equals**

- A 1
- B 0
- C the slope
- D the y intercept

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44 **A hexagon has**

- A 5 sides
- B 6 sides
- C 8 sides
- D 4 sides

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45 **When comparing two vehicles, a buyer should compare**

- A colour only
- B total owning and operating costs
- C brand only
- D top speed only

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46 **A cm^3 is a unit of**

- A area
- B length
- C volume
- D mass

Understand It with Pulse | Flag a mistake

47 **A weak correlation has points**

A exactly on a line

B widely scattered around a trend

C all equal

D all zero

Understand It with Pulse | Flag a mistake

48 **A direct variation has a graph through**

A only positive values

B the origin

C a horizontal line

D a vertical line

Understand It with Pulse | Flag a mistake

49 **A dilation changes a shape size by**

- A a rotation
- B a scale factor
- C a reflection
- D a translation

Understand It with Pulse | Flag a mistake

50 **The total cost of owning a vehicle includes purchase price, fuel, insurance, maintenance, and**

- A colour and style
- B registration and repairs
- C radio and seats
- D advertising

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	250	**18.**	D	**35.**	30
2.	6	**19.**	A	**36.**	850
3.	3	**20.**	A	**37.**	28
4.	13	**21.**	D	**38.**	4
5.	48	**22.**	C	**39.**	35
6.	450	**23.**	D	**40.**	56
7.	14	**24.**	A	**41.**	C
8.	3	**25.**	A	**42.**	C
9.	25	**26.**	C	**43.**	B
10.	25.2	**27.**	D	**44.**	B
11.	650	**28.**	A	**45.**	B
12.	15	**29.**	A	**46.**	C
13.	2	**30.**	A	**47.**	B
14.	41	**31.**	350	**48.**	B
15.	14.4	**32.**	15	**49.**	B
16.	C	**33.**	3	**50.**	B
17.	D	**34.**	34		

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