NOVA SCOTIA MATHEMATICS 10 · 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 **1500 centimetres in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A right triangle has opposite side 6 and hypotenuse 10. The sine ratio is**

A $\frac{8}{10}$

B $\frac{6}{8}$

C $\frac{10}{6}$

D $\frac{6}{10}$

Understand It with Pulse | Flag a mistake

3 3^3 is

ANSWER

Understand It with Pulse | Flag a mistake

4 When x = 2 the line y = 2x + 3 gives y =

ANSWER

Understand It with Pulse | Flag a mistake

5 Simple interest on 2000 dollars at 4 percent per year for 3 years in dollars is

ANSWER

Understand It with Pulse | Flag a mistake

6 3 kilometres in metres is

ANSWER

Understand It with Pulse | Flag a mistake

7 **A right triangle has adjacent side 8 and hypotenuse 10. The cosine ratio is**

- **A** $\frac{8}{10}$
- **B** $\frac{6}{10}$
- **C** $\frac{8}{6}$
- **D** $\frac{10}{8}$

Understand It with Pulse | Flag a mistake

8 **3^2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The line $y = 4x + 2$ has slope**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Simple interest on 1200 dollars at 5 percent per year for 4 years in dollars is**

ANSWER _____

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11 **500 grams in kilograms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A right triangle has adjacent side 12 and hypotenuse 13. The cosine ratio is**

A $\frac{5}{13}$

B $\frac{12}{5}$

C $\frac{13}{12}$

D $\frac{12}{13}$

Understand It with Pulse | Flag a mistake

13 **The square root of 25 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **The line y = 1x + 5 has y intercept**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A price of 200 dollars reduced by 10 percent gives a sale price in dollars of**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **1500 millilitres in litres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A right triangle has adjacent side 12 and hypotenuse 13. The cosine as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The square root of 81 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **When x = 2 the line y = 5x + 0 gives y =**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A price of 400 dollars reduced by 15 percent gives a sale price in dollars of**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A rectangle with length 9 metres and width 5 metres has perimeter in metres of**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A right triangle has opposite side 9 and hypotenuse 15. The sine as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **x^5x^4 equals**

A x^{20}

B x^{1}

C x^{9}

D x^{11}

Understand It with Pulse | Flag a mistake

24 **The slope of the line through points 0 comma 0 and 2 comma 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A price of 115 dollars with 15 percent tax added gives a total in dollars of**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **A rectangle with length 7 metres and width 8 metres has perimeter in metres of**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 A right triangle has opposite side 8 and adjacent side 15. The tangent ratio is

- **A** $\frac{8}{15}$
- **B** $\frac{15}{8}$
- **C** $\frac{8}{17}$
- **D** $\frac{15}{17}$

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28 The square root of 50 in simplest form is

- **A** $5\sqrt{5}$
- **B** $10\sqrt{2}$
- **C** $5\sqrt{2}$
- **D** $25\sqrt{2}$

Understand It with Pulse | Flag a mistake

29 **Solve 2 x plus 3 equals 11 for x**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **Working 40 hours at 14 dollars per hour earns in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **A circle with radius 3 centimetres has area in cm² using pi equals 3.14 of**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **A right triangle has legs 6 and 8. The hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **The product of x plus 4 and x plus 3 is**

A $x^2 + 5x + 12$

B $x^2 + 7x + 12$

C $x^2 + 9x + 12$

D $x^2 + 7x + 14$

Understand It with Pulse | Flag a mistake

34 **Solve 2 x plus 5 equals 13 for x**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A cost of 100 dollars shared equally by 5 people is in dollars per person**

ANSWER _____

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36 **A cube with side 4 centimetres has surface area in cm² of**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **A right triangle has hypotenuse 10 and one leg 6. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **When x = 4 the value of 3x² + 2x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **The system x + y = 4 and x - y = 2 has x value**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **Simple interest on 1500 dollars at 6 percent per year for 3 years in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A rectangular prism with length 5 centimetres width 4 centimetres and height 3 centimetres has volume in cm³ of**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **The sine of an angle in a right triangle equals opposite side divided by**

A adjacent side

B hypotenuse

C opposite side

D right angle

Understand It with Pulse | Flag a mistake

43 **The square root of 121 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **The system x + y = 6 and x - y = 2 has x value**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **Working 15 hours at 20 dollars per hour earns in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **The best unit for the length of a classroom is**

- **A** metres
- **B** millimetres
- **C** kilometres
- **D** milligrams

Understand It with Pulse | Flag a mistake

47 **In the triangle AB equals 4 AC equals 3 and BC equals 5 with a right angle at A. The value of sin B is**

- **A** $\frac{4}{5}$
- **B** $\frac{3}{5}$
- **C** $\frac{3}{4}$
- **D** $\frac{4}{3}$

Understand It with Pulse | Flag a mistake

48 **In the term $5x^2$ the coefficient is**

- A 5
- B 2
- C x
- D 10

Understand It with Pulse | Flag a mistake

49 **A relation is a function when each input has**

- A many inputs
- B no output
- C exactly one output
- D two outputs

Understand It with Pulse | Flag a mistake

50 **In Nova Scotia the harmonized sales tax rate commonly applied is**

A 5 percent

B 15 percent

C 10 percent

D 20 percent

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ANSWER KEY

1. 15
2. D
3. 27
4. 7
5. 240
6. 3000
7. A
8. 9
9. 4
10. 240
11. 0.5
12. D
13. 5
14. 5
15. 180
16. 1.5
17. 0.9231
18. 9
19. 10
20. 340
21. 28
22. 0.6
23. C
24. 2
25. 132.25
26. 30
27. A
28. C
29. 4
30. 560
31. 28.26
32. 10
33. B
34. 4
35. 20
36. 96
37. 8
38. 56
39. 3
40. 270
41. 60
42. B
43. 11
44. 4
45. 300
46. A
47. B
48. A
49. C
50. B

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