NOVA SCOTIA MATHEMATICS AT WORK 11 · UNIT D · 25 QUESTIONS

Algebra — 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 job cost is 20 dollars plus 5 dollars per hour. For 6 hours, the total cost, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Area equals length times width. Length 12 metres and area 60 m². Width, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Evaluate 3x + 5 when x = 4 . The value is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Simple interest is principal times rate percent times years divided by 100. Principal 200 dollars, rate 5 percent, years 2. Interest, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Solve for x. 3x minus 7 equals 20. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Solve for x. 5x plus 2 equals 27. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Combining like terms, 2x plus 3x equals**

- A 2x + 3
- B 5x
- C 5
- D 6x

Understand It with Pulse | Flag a mistake

8 **Expanding 2 times x plus 4 gives**

- A x plus 8
- B 2x + 4
- C 2x + 8
- D 6x

Understand It with Pulse | Flag a mistake

9 **If y = 2x + 1 and x = 5 , then y =**

- A 7
- B 12
- C 11
- D 10

Understand It with Pulse | Flag a mistake

10 **In the expression 3x plus 5, the coefficient of x is**

- A 8
- B 5
- C x
- D 3

Understand It with Pulse | Flag a mistake

11 In the expression 3x plus 5, the constant term is

- A 5
- B 3
- C x
- D 8

Understand It with Pulse | Flag a mistake

12 Solve for x . $\frac{x}{7} = 2$. The value of x is

ANSWER _____

Understand It with Pulse | Flag a mistake

13 Speed equals distance divided by time. Distance 120 kilometres and time 2 hours. Speed, in kilometres per hour, is

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A job cost is 30 dollars plus 4 dollars per hour. For 7 hours, the total cost, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Area equals length times width. Length 15 metres and area 60 m². Width, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Evaluate 2x + 7 when x = 6 . The value is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Simple interest is principal times rate percent times years divided by 100. Principal 400 dollars, rate 4 percent, years 3. Interest, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **Solve for x. 2x minus 9 equals 25. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Solve for x. 2x plus 3 equals 11. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A job cost is 15 dollars plus 8 dollars per hour. For 5 hours, the total cost, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Area equals length times width. Length 9 metres and area 63 m². Width, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Evaluate 5x + 4 when x = 3 . The value is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Simple interest is principal times rate percent times years divided by 100. Principal 300 dollars, rate 6 percent, years 2. Interest, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Solve for x. 4x minus 5 equals 27. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Solve for x. 3x plus 4 equals 19. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 50
2. 5
3. 17
4. 20
5. 9
6. 5
7. B
8. C
9. C
10. D
11. A
12. 14
13. 60
14. 58
15. 4
16. 19
17. 48
18. 17
19. 4
20. 55
21. 7
22. 19
23. 36
24. 8
25. 5

© 2026 Brett Robbins. All Rights Reserved.