# Linear Relationships — Practice Test

**Prince Edward Island Apprenticeship and Workplace Mathematics 12 • 25 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 **A line through 0 comma 0 and 4 comma 12 has slope**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **For the linear relation y = 2x + 3 , the value of y at x = 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **For y = 4x - 5 , the value of y at x = 6 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4

## Slope measures

A rate of change

B starting value

C total change only

D intercept

Understand It with Pulse | Flag a mistake

5

## A cost of 10 dollars per hour for 8 hours totals this many dollars

ANSWER _____

Understand It with Pulse | Flag a mistake

6

## A delivery charges 5 dollars plus 3 dollars per kilometre. The cost for 6 kilometres in dollars is

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A horizontal line has slope**

A 0

B 1

C undefined

D -1

Understand It with Pulse | Flag a mistake

8 **A linear relation has a graph that is a**

A circle

B parabola

C straight line

D curve

Understand It with Pulse | Flag a mistake

9

## A negative slope means the line

A is vertical

B falls from left to right

C rises from left to right

D is horizontal

Understand It with Pulse | Flag a mistake

10

## A phone plan costs 20 dollars plus 5 dollars per gigabyte. The cost for 4 gigabytes in dollars is

ANSWER _____

Understand It with Pulse | Flag a mistake

**11** **A positive slope means the line**

- A is horizontal
- B is vertical
- C rises from left to right
- D falls from left to right

Understand It with Pulse | Flag a mistake

**12** **A rental costs 30 dollars plus 10 dollars per day. The cost for 7 days in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

**13** **A taxi charges 3 dollars plus 2 dollars per kilometre. The cost for 10 kilometres in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A vertical line has slope that is**

A 0

B 1

C -1

D undefined

Understand It with Pulse | Flag a mistake

15 **A worker earns 18 dollars per hour plus a 20 dollar bonus. Pay for 5 hours in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Extrapolation estimates a value**

A beyond known data points

B between known data points

C at zero only

D at the mean only

Understand It with Pulse | Flag a mistake

17 **In y = m x + b , b represents**

A rate

B y intercept

C slope

D x intercept

Understand It with Pulse | Flag a mistake

18 **In y = m x + b , m represents**

A x intercept

B area

C slope

D y intercept

Understand It with Pulse | Flag a mistake

19 **Interpolation estimates a value**

A at the maximum only

B between known data points

C beyond known data points

D at zero only

Understand It with Pulse | Flag a mistake

20 **A line through 1 comma 2 and 3 comma 8 has slope**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **For the linear relation y = 3x + 1 , the value of y at x = 5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **For y = -2x + 12 , the value of y at x = 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A line through 0 comma 5 and 2 comma 13 has slope**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **For the linear relation y = -1x + 10 , the value of y at x = 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **For y = 6x + 1 , the value of y at x = 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

# ANSWER KEY

1. 3
2. 11
3. 19
4. A
5. 80
6. 23
7. A
8. C
9. B
10. 40
11. C
12. 100
13. 23
14. D
15. 110
16. A
17. B
18. C
19. B
20. 3
21. 16
22. 4
23. 4
24. 7
25. 19

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