NEWFOUNDLAND AND LABRADOR MATHEMATICS 1201 · UNIT D · 25 QUESTIONS

Relations and Functions — 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 function gives 3 times the input plus 5. For input 3, the output is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A line passes through the points with x 0 and y 3, and x 4 and y 19. Its slope is**



A 5

B 4

C 3

D 6

Understand It with Pulse | Flag a mistake

3 For the rule y = 3x + 9 , the y intercept is

ANSWER

Understand It with Pulse | Flag a mistake

4 For the rule y = 3x + 2 , when x is 3 , y is

A 11

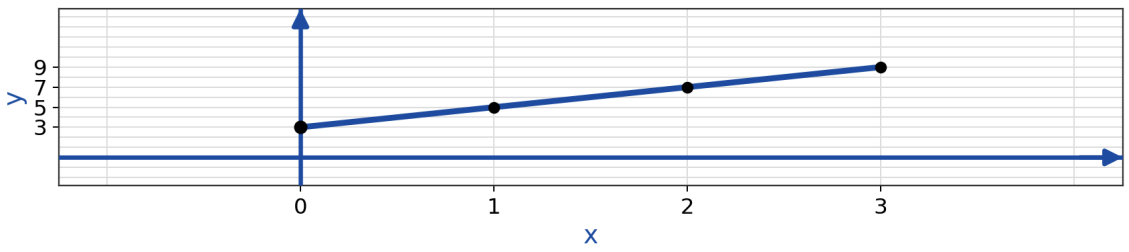
B 12

C 10

D 13

Understand It with Pulse | Flag a mistake

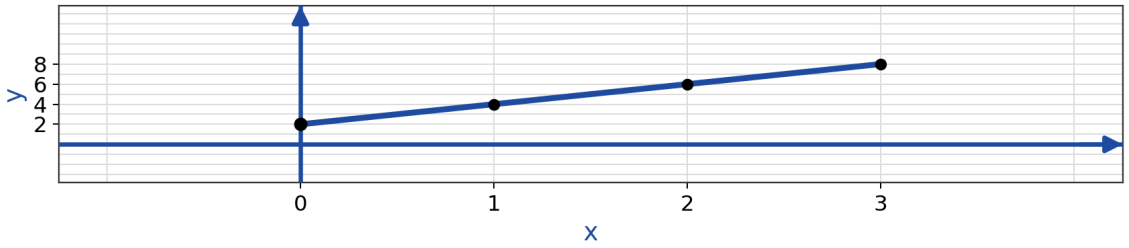
5 From the graph shown , the y value when x = 2 is



ANSWER

Understand It with Pulse | Flag a mistake

6 **The graph shown joins points . At x = 2 , the y value is**



ANSWER

Understand It with Pulse | Flag a mistake

7 **What is the meaning of dependent variable?**

A the rate of change shown by a graph

B the point where a graph crosses an axis

C a relation whose graph is a straight line

D the variable that depends on another variable

Understand It with Pulse | Flag a mistake

8 **What is the meaning of domain?**

A the set of output values of a relation

B two values written as an input and an output

C the variable chosen freely in a relation

D the set of input values of a relation

Understand It with Pulse | Flag a mistake

9 **What is the meaning of function?**

A the set of input values of a relation

B the set of output values of a relation

C a relation where each input has one output

D two values written as an input and an output

Understand It with Pulse | Flag a mistake

10 **What is the meaning of independent variable?**

A the variable that depends on another variable

B the rate of change shown by a graph

C the variable chosen freely in a relation

D the point where a graph crosses an axis

Understand It with Pulse | Flag a mistake

11 **What is the meaning of intercept?**



A a relation whose graph is a straight line

B the point where a graph crosses an axis

C a table listing inputs and their outputs

D a picture showing a relation on axes

Understand It with Pulse | Flag a mistake

12 **What is the meaning of linear relation?**



A a table listing inputs and their outputs

B a picture showing a relation on axes

C a relation whose graph is a straight line

D a set of ordered pairs

Understand It with Pulse | Flag a mistake

13 **What is the meaning of ordered pair?**



A the variable chosen freely in a relation

B two values written as an input and an output

C the variable that depends on another variable

D the rate of change shown by a graph

Understand It with Pulse | Flag a mistake

14 **What is the meaning of range?**

A the set of output values of a relation

B two values written as an input and an output

C the variable chosen freely in a relation

D the variable that depends on another variable

Understand It with Pulse | Flag a mistake

15 **What is the meaning of relation?**

A a relation where each input has one output

B a set of ordered pairs

C the set of input values of a relation

D the set of output values of a relation

Understand It with Pulse | Flag a mistake

16 **What is the meaning of slope?**



A the rate of change shown by a graph

B the point where a graph crosses an axis

C a relation whose graph is a straight line

D a table listing inputs and their outputs

Understand It with Pulse | Flag a mistake

17 **Which term matches this description: a relation where each input has one output?**

A domain

B function

C range

D ordered pair

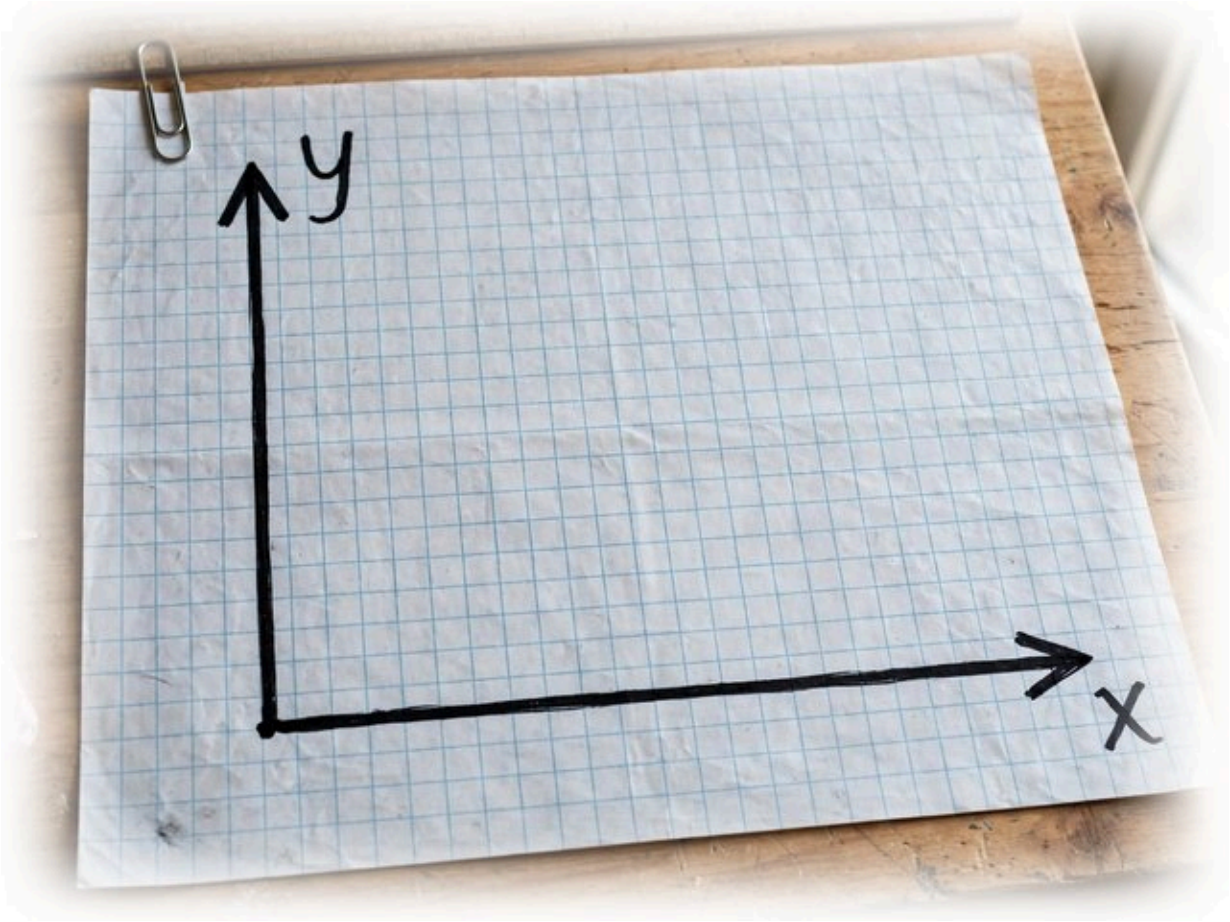
Understand It with Pulse | Flag a mistake

18 **A function gives 3 times the input plus 6. For input 3, the output is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A line passes through the points with x 0 and y 5, and x 3 and y 11. Its slope is**



A 3

B 1

C 4

D 2

Understand It with Pulse | Flag a mistake

20 For the rule y = 5x + 6 , the y intercept is

ANSWER _____

Understand It with Pulse | Flag a mistake

21 For the rule y = 5x + 1 , when x is 5 , y is

A 27

B 25

C 26

D 28

Understand It with Pulse | Flag a mistake

22 A function gives 5 times the input plus 4. For input 5, the output is

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A line passes through the points with x 0 and y 3, and x 4 and y 11. Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **For the rule y = 3x + 4 , the y intercept is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **For the rule y = 5x + 8 , when x is 9 , y is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 14
2. B
3. 9
4. A
5. 7
6. 6
7. D
8. D
9. C
10. C
11. B
12. C
13. B
14. A
15. B
16. A
17. B
18. 15
19. D
20. 6
21. C
22. 29
23. 2
24. 4
25. 53

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