Linear Relations, Graphs and Interpolation — Practice Test

Saskatchewan Workplace and Apprenticeship Mathematics 30 • 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 **For the line y = x + 3, the y-intercept is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The graph joins two points with a straight line . By interpolation , the value at x = 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A line with slope 5 is**

A increasing from left to right

B horizontal

C vertical

D decreasing from left to right

Understand It with Pulse | Flag a mistake

4 **The equation of a line with slope 1 and y-intercept 3 is**

A $y = 3x + 1$

B $y = x + 3$

C $y = -x + 3$

D $y = x - 3$

Understand It with Pulse | Flag a mistake

5 **A line with slope 4 is**

A horizontal

B vertical

C increasing from left to right

D decreasing from left to right

Understand It with Pulse | Flag a mistake

6 **The equation of a line with slope 4 and y-intercept 7 is**

A $y = 7x + 4$

B $y = -4x + 7$

C $y = 4x - 7$

D $y = 4x + 7$

Understand It with Pulse | Flag a mistake

7 For the line y = x - 4, the y-intercept is

ANSWER _____

Understand It with Pulse | Flag a mistake

8 The equation of a line with slope 2 and y-intercept 9 is

A. y = 2x + 9

B. y = 9x + 2

C. y = -2x + 9

D. y = 2x - 9

Understand It with Pulse | Flag a mistake

9 A line passes through (1, 9) and (9, 41). Its slope is

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **For the line y = 5x - 4, the y-intercept is**

ANSWER _____

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11 **A line passes through (2, 7) and (6, 19). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A line with slope 1 is**

A horizontal

B increasing from left to right

C vertical

D decreasing from left to right

Understand It with Pulse | Flag a mistake

13 **A line with slope 3 is**

A horizontal

B vertical

C increasing from left to right

D decreasing from left to right

Understand It with Pulse | Flag a mistake

14 **A line with slope 2 is**

A horizontal

B vertical

C decreasing from left to right

D increasing from left to right

Understand It with Pulse | Flag a mistake

15 **For the line y = 2x - 1, the y-intercept is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The equation of a line with slope 3 and y-intercept 5 is**

A y = 3x + 5

B y = 5x + 3

C y = -3x + 5

D y = 3x - 5

Understand It with Pulse | Flag a mistake

17 **A line passes through (3, 8) and (8, 13). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **For the line y = 2x - 2, the y-intercept is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A line passes through (2, 11) and (7, 26). Its slope is**

ANSWER _____

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20 **A line passes through (0, 2) and (5, 22). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **For the line y = 2x, the y-intercept is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A line passes through (1, 4) and (8, 11). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **For the line y = 5x + 5, the y-intercept is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A line passes through (0, 3) and (8, 11). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The equation of a line with slope 3 and y-intercept 2 is**

A y = 2x + 3

B y = 3x + 2

C y = -3x + 2

D y = 3x - 2

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	3	**10.**	-4	**19.**	3
2.	10	**11.**	3	**20.**	4
3.	A	**12.**	B	**21.**	0
4.	B	**13.**	C	**22.**	1
5.	C	**14.**	D	**23.**	5
6.	D	**15.**	-1	**24.**	1
7.	-4	**16.**	A	**25.**	B
8.	A	**17.**	1		
9.	4	**18.**	-2		

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