PRINCE EDWARD ISLAND FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 10 · UNIT D · 25 QUESTIONS

Linear Relations, Functions, Equations and Graphs — 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 line has equation $y = 2x + 3$. When $x = 4$, the value of y is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A line has slope 2 and y intercept 3. The value of y when $x = 0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **In line work, what is the main purpose or meaning of domain?**

A set of possible output values

B set of allowed input values

C lines with equal slopes

D lines meeting at right angles

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4 **In line work, what is the main purpose or meaning of function?**

A set of allowed input values

B set of possible output values

C lines with equal slopes

D rule giving one output per input

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5 **In line work, what is the main purpose or meaning of graph?**

A steepness of a line

B where a line crosses the y axis

C where a line crosses the x axis

D picture of a relation

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6 **In line work, what is the main purpose or meaning of parallel lines?**

A lines meeting at right angles

B lines with equal slopes

C form y equals mx + b

D picture of a relation

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7 **In line work, what is the main purpose or meaning of perpendicular lines?**

A form y equals mx + b

B picture of a relation

C steepness of a line

D lines meeting at right angles

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8 **In line work, what is the main purpose or meaning of range?**

A lines with equal slopes

B lines meeting at right angles

C form y equals mx + b

D set of possible output values

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9 **In line work, what is the main purpose or meaning of slope?**

A where a line crosses the y axis

B steepness of a line

C where a line crosses the x axis

D rule giving one output per input

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10 **In line work, what is the main purpose or meaning of slope intercept form?**

A picture of a relation

B form y equals mx + b

C steepness of a line

D where a line crosses the y axis

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11 **In line work, what is the main purpose or meaning of x intercept?**

- A rule giving one output per input
- B where a line crosses the x axis
- C set of allowed input values
- D set of possible output values

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12 **In line work, what is the main purpose or meaning of y intercept?**

- A where a line crosses the x axis
- B rule giving one output per input
- C set of allowed input values
- D where a line crosses the y axis

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13 **In line work , which term matches this description : form y = mx plus b ?**

A slope intercept form

B graph

C slope

D y intercept

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14 **In line work, which term matches this description: lines meeting at right angles?**

A slope intercept form

B graph

C perpendicular lines

D slope

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15 **In line work, which term matches this description: lines with equal slopes?**

- A parallel lines
- B perpendicular lines
- C slope intercept form
- D graph

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16 **In line work, which term matches this description: picture of a relation?**

- A slope
- B y intercept
- C graph
- D x intercept

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17 **In line work, which term matches this description: rule giving one output per input?**

- A domain
- B range
- C function
- D parallel lines

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18 **In line work, which term matches this description: set of allowed input values?**

- A domain
- B range
- C parallel lines
- D perpendicular lines

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19 **In line work, which term matches this description: set of possible output values?**

A parallel lines

B perpendicular lines

C range

D slope intercept form

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20 **In line work, which term matches this description: steepness of a line?**

A slope

B y intercept

C x intercept

D function

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21 **In line work, which term matches this description: where a line crosses the x axis?**

A x intercept

B function

C domain

D range

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22 **A line has equation y = 3x + 1 . When x = 4 , the value of y is**

ANSWER _____

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23 **A line has slope 3 and y intercept 1 . The value of y when x = 0 is**

ANSWER _____

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24 **A line has equation y = 1x + 4 . When x = 4 , the value of y is**

ANSWER _____

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25 **A line has slope 1 and y intercept 4 . The value of y when x = 0 is**

ANSWER _____

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ANSWER KEY

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

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