Slope and Proportional Reasoning — Practice Test

Prince Edward Island Apprenticeship and Workplace Mathematics 11 • 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 passes through the points (0, 0) and (4, 8). What is the slope of the line**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A ramp rises from point (0, 0) to point (2, 6). What is the slope of the ramp**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A recipe uses direct proportion with constant 4. If one batch needs 5 units of an ingredient scaled by the constant, what is the scaled amount**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A total of 60 dollars is shared in equal parts among 4 workers. How many dollars does each worker receive**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A line that falls to the right has**

A negative slope

B positive slope

C zero slope

D undefined slope

Understand It with Pulse | Flag a mistake

6

A line that rises to the right has

A negative slope

B zero slope

C undefined slope

D positive slope

Understand It with Pulse | Flag a mistake

7

A ratio of 3 to 2 can also be written as

A 3:2

B 2:3

C 5

D 1.5 only

Understand It with Pulse | Flag a mistake

8 **A slope expressed as a percent grade of 10 percent means a rise of 10 for a run of**

- A 10
- B 1000
- C 100
- D 1

Understand It with Pulse | Flag a mistake

9 **A slope of $\frac{1}{4}$ means for every 4 units of run , the rise is**

- A 4 units
- B 1 unit
- C 0 units
- D 16 units

Understand It with Pulse | Flag a mistake

10 **A steeper line has a slope with a**

- A smaller absolute value
- B zero value
- C negative value only
- D larger absolute value

Understand It with Pulse | Flag a mistake

11 **A car uses 12 litres of fuel to travel 150 km. The unit rate is**

- A 12 L per km
- B 0.08 L per km
- C 150 km per L
- D 12.5 km per L

Understand It with Pulse | Flag a mistake

12 **Direct proportion means the ratio between two quantities stays**

A zero

B constant

C variable

D negative

Understand It with Pulse | Flag a mistake

13 **If a car travels 120 kilometres in 2 hours, its average speed is**

A 120 kilometres per hour

B 240 kilometres per hour

C 60 kilometres per hour

D 30 kilometres per hour

Understand It with Pulse | Flag a mistake

14 **If 4 kilograms cost 12 dollars, the unit price is**

A 3 dollars per kilogram

B 4 dollars per kilogram

C 12 dollars per kilogram

D 48 dollars per kilogram

Understand It with Pulse | Flag a mistake

15 **In a direct proportion graph, the line passes through the**

A highest point

B y intercept only

C origin

D midpoint only

Understand It with Pulse | Flag a mistake

16 **Parallel lines have slopes that are**

A opposite

B equal

C reciprocals

D zero

Understand It with Pulse | Flag a mistake

17 **Perpendicular lines have slopes that are**

A equal

B opposites only

C negative reciprocals

D zero

Understand It with Pulse | Flag a mistake

18 **A line passes through the points (1, 2) and (5, 10). What is the slope of the line**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A ramp rises from point (1, 3) to point (4, 12). What is the slope of the ramp**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A recipe uses direct proportion with constant 3. If one batch needs 8 units of an ingredient scaled by the constant, what is the scaled amount**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A total of 90 dollars is shared in equal parts among 6 workers. How many dollars does each worker receive**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A line passes through the points (0, 3) and (4, 11). What is the slope of the line**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A ramp rises from point (0, 5) to point (5, 20). What is the slope of the ramp**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A recipe uses direct proportion with constant 6. If one batch needs 4 units of an ingredient scaled by the constant, what is the scaled amount**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A total of 120 dollars is shared in equal parts among 5 workers. How many dollars does each worker receive**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	2.00	**10.**	D	**19.**	3.00
2.	3.00	**11.**	D	**20.**	24
3.	20	**12.**	B	**21.**	15
4.	15	**13.**	C	**22.**	2.00
5.	A	**14.**	A	**23.**	3.00
6.	D	**15.**	C	**24.**	24
7.	A	**16.**	B	**25.**	24
8.	C	**17.**	C		
9.	B	**18.**	2.00		

© 2026 Brett Robbins. All Rights Reserved.