SLOPE AND PROPORTIONAL REASONING - PRACTICE TEST | NEW BRUNSWICK FINANCIAL AND WORKPLACE MATHEMATICS 120 · UNIT C · 25 QUESTIONS

Slope and Proportional Reasoning — 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 **The values 2 and 6 are in direct proportion with a constant of proportionality of 3. If the first value is 8, the second value is**

- A 24
- B 11
- C 16
- D 32

Understand It with Pulse | Flag a mistake

2 **The values 3 and 9 are in direct proportion with a constant of proportionality of 3. If the first value is 8, the second value is**

- A 11
- B 24
- C 16
- D 32

Understand It with Pulse | Flag a mistake

3 **The values 4 and 12 are in direct proportion with a constant of proportionality of 3. If the first value is 8, the second value is**

- A 11
- B 16
- C 24
- D 32

Understand It with Pulse | Flag a mistake

4 A ramp rises 9 metres over a run of 12 metres. Its slope is

- **A** $\frac{3}{4}$
- **B** $\frac{4}{3}$
- **C** 3
- **D** 12

Understand It with Pulse | Flag a mistake

5 The slope of the line through (2,3) and (5,15) is

ANSWER _____

Understand It with Pulse | Flag a mistake

6 The slope of the line through (1,1) and (6,21) is

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The slope of the line through (0,2) and (5,17) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The slope of a ramp that rises 1 metre for every 8 metres of run is, as a decimal,**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A ramp rises 6 m over a horizontal run of 3 m. Its slope as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A ramp rises 10 m over a horizontal run of 4 m. Its slope as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A ramp rises 9 m over a horizontal run of 3 m. Its slope as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A hill rises 15 metres over a horizontal distance of 60 metres. Its slope as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A wheelchair ramp rises 0.5 metres over a run of 6 metres. Its slope, to three decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Which ramp is steepest**

A a ramp with slope 0.8

B a ramp with slope 0.5

C a ramp with slope 0.2

D a ramp with slope 0.1

Understand It with Pulse | Flag a mistake

15 **At a store, 4 notebooks cost 12 dollars. At the same unit price, 7 notebooks cost, in dollars,**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Six pens cost 9 dollars. The cost of 10 pens at the same unit price, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **If 3 items cost 12 dollars, the cost of 5 items at the same unit price in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **If 4 items cost 20 dollars, the cost of 7 items at the same unit price in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **If 2 items cost 10 dollars, the cost of 9 items at the same unit price in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A 2 kilogram bag of rice costs 6 dollars. A 5 kilogram bag at the same unit price costs, in dollars,**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Three litres of paint cost 24 dollars. The unit price, in dollars per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A worker earns 120 dollars for 8 hours of work. At the same rate, the pay for 5 hours, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Two quantities are in direct proportion. When the first is 4, the second is 12. When the first is 7, the second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A line passes through (2, 3) and (6, 11). The slope of the line is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A car travels 120 km in 2 hours at a steady speed. Its speed in kilometres per hour is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. B
3. C
4. A
5. 4
6. 4
7. 3
8. 0.125
9. 2
10. 2.5
11. 3
12. 0.25
13. 0.083
14. A
15. 21
16. 15
17. 20
18. 35
19. 45
20. 15
21. 8
22. 75
23. 21
24. 2
25. 60

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