SLOPE AND PROPORTIONAL REASONING - PRACTICE TEST | NEW BRUNSWICK FINANCIAL AND WORKPLACE MATHEMATICS 110 · UNIT C · 10 QUESTIONS

Slope and Proportional Reasoning, 10-question test — 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 **If 5 items cost 15 dollars, then 8 items at the same unit price cost, in dollars**

Question 1

A line passes through points with coordinates 0 comma 0 and 4 comma 12. Its slope is

ANSWER

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2 **If 6 items cost 24 dollars, then 10 items at the same unit price cost, in dollars**

Question 2

If 6 items cost 24 dollars, then 10 items at the same unit price cost, in dollars

ANSWER

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3

The graph shows a line through the point 0 comma 2 and the point 6 comma 14. The slope of the line is

Question 3

Proportional reasoning compares quantities using

A) equal differences

B) equal ratios

C) equal squares

D) equal cubes

A 3

B 2

C 6

D 12

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4 The slope of a vertical line is

Question 4

Slope is defined as

A) run over rise

B) rise plus run

C) rise over run

D) rise times run

A zero

B one

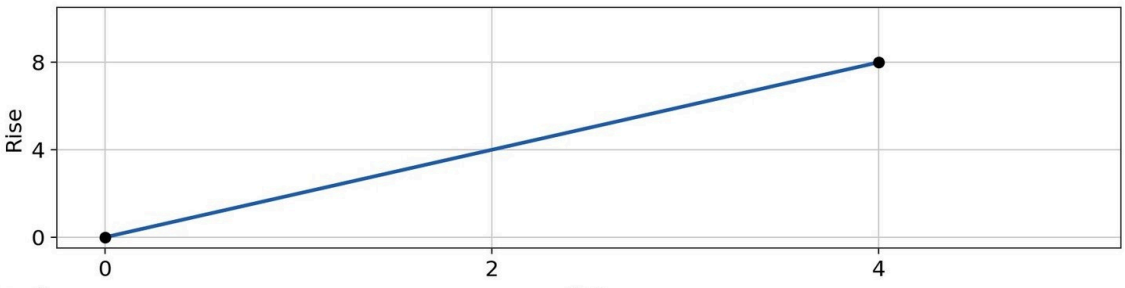
C negative one

D undefined

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5 **If a car travels 120 kilometres in 2 hours at constant speed, its rate, in kilometres per hour, is 60. This rate is also called its**



A slope on a distance time graph

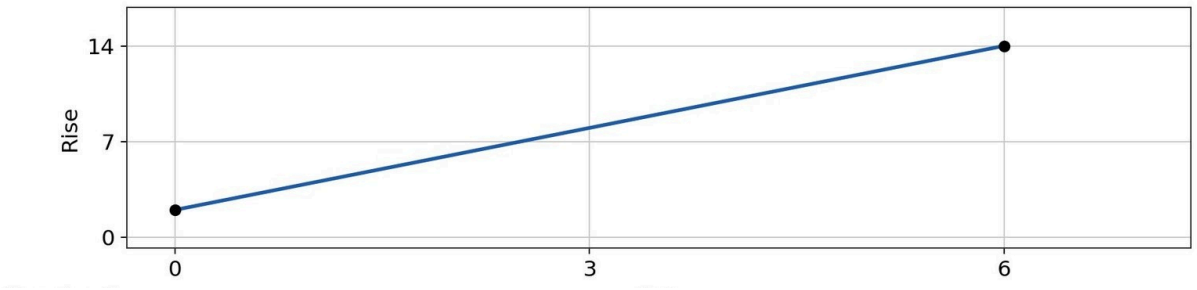
B area on a distance time graph

C intercept

D maximum value

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6 Proportional reasoning compares quantities using



A equal differences

B equal ratios

C equal squares

D equal cubes

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7 A worker earns 240 dollars in 8 hours. At the same rate, earnings for 5 hours, in dollars, are

Question 7

The slope of a vertical line is

A) zero

B) one

C) negative one

D) undefined

ANSWER

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8

A line passes through points with coordinates 0 comma 1 and 5 comma 21. Its slope is

Question 8

Two quantities in direct proportion have a graph that is a

A) straight line through the origin

B) curve through the origin

C) horizontal line

D) vertical line

ANSWER

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9

A line passes through points with coordinates 2 comma 2 and 7 comma 22. Its slope is

Question 9

A line passes through points with coordinates 0 comma 1 and 5 comma 21. Its slope is

ANSWER

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10

A ramp rises 21 metres over a horizontal run of 7 metres. Its slope is

Question 10

A line passes through points with coordinates 2 comma 2 and 7 comma 22. Its slope is

ANSWER

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ANSWER KEY

1. 24
2. 40
3. B
4. D
5. A
6. B
7. 150
8. 4
9. 4
10. 3

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