BRITISH COLUMBIA WORKPLACE MATHEMATICS 11 (MWPM-11) · UNIT B · 25 QUESTIONS

Rate of Change and Graphs in Society — 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 yellow car travels 240 kilometres in 3 hours. Its average speed is**



A 60

B 70

C 80

D 90

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2 **A plant grows from 12 cm to 27 cm in 5 days. The average rate of growth per day is**



A 2

B 3

C 4

D 5

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3 **The slope of the line through (1, 4) and (5, 16) is**

- A 2
- B 3
- C 4
- D 12

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4 **The slope of the line through (0, 2) and (4, 2) is**

- A 0
- B 1
- C 2
- D undefined

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5 **On a distance time graph, a flat horizontal segment means the object is**

- A moving fastest
- B not moving
- C speeding up
- D moving backwards

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6 **On a distance time graph, the steepest segment shows the**

- A slowest speed
- B fastest speed
- C longest stop
- D shortest trip

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7 **A graph of wages against hours worked has slope 22. In context, the slope means the worker earns**

A 22 dollars per hour

B 22 hours per dollar

C 22 dollars per week

D 22 dollars in total

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8 **A phone plan costs 30 dollars plus 0.50 dollars per gigabyte. The cost for 10 gigabytes is**



A 30

B 35

C 40

D 80

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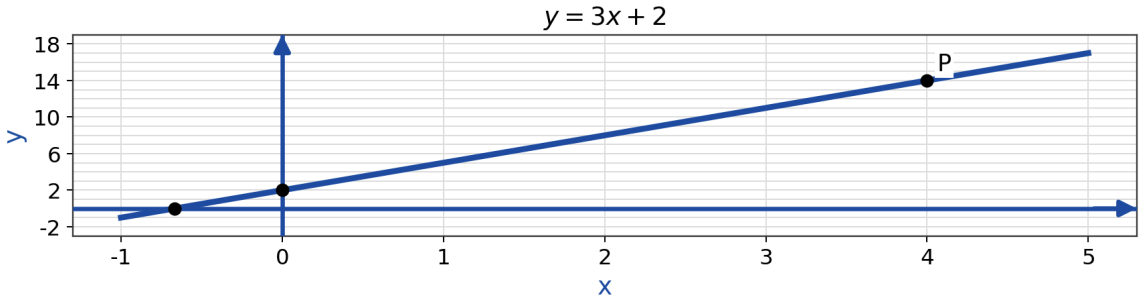
9 **The graph shows the line y = 3x + 2. The value of y when x = 4 is**



A 10

B 12

C 14

D 18

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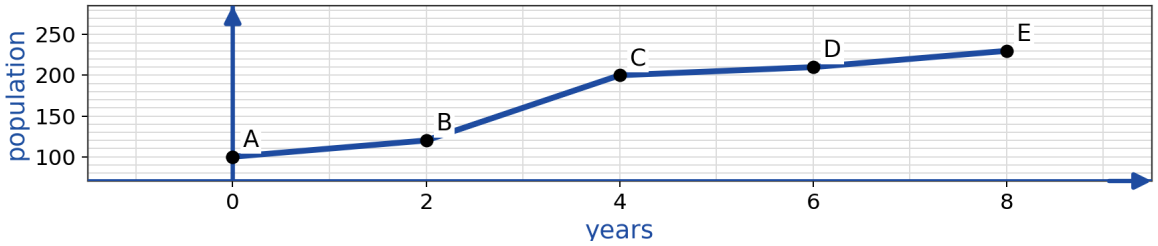
10 **The graph shows town population over time. Between which years did the population grow fastest?**



- **A** Years 0 to 2
- **B** Years 2 to 4
- **C** Years 4 to 6
- **D** Years 6 to 8

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11 **A news graph has a vertical axis that starts at 90 instead of 0. A small change will look**

- **A** much larger than it is
- **B** much smaller than it is
- **C** exactly the same
- **D** flat

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12 **A graph that shows only the years when sales rose, hiding years when sales fell, is misleading because it**

- A uses the wrong colour
- B cherry picks the data
- C has too many labels
- D uses a line graph

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13 **Two bars look twice as tall but their values are 50 and 60. The most likely cause is**

- A a truncated axis
- B a missing title
- C too few bars
- D rounded values

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14 **An advertisement graph with no axis labels or units should be treated as**

A proof of the claim

B unreliable until checked

C exact data

D a prediction

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15 **A runner wearing running shoes covers 5 km in 30 minutes and then 5 km in 20 minutes. The second part was**



A slower

B faster

C the same speed

D at rest

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16 **Water flows into a tank at 4 litres per minute for 15 minutes. The volume added is**

A 30

B 45

C 60

D 75

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17 **A taxi charges 3 dollars plus 2 dollars per kilometre. A 9 kilometre ride costs**



A 19

B 21

C 24

D 27

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18 **If a graph rises and then falls back to its starting value, the overall change is**

A 0

B positive

C negative

D doubled

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19 **A stock price falls from 80 dollars to 60 dollars. The percent decrease is**

A 20

B 25

C 33

D 40

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20 **A price rises from 40 dollars to 50 dollars. The percent increase is**

- A 10
- B 20
- C 25
- D 50

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21 **Which question should be asked first about a graph in an advertisement?**

- A What do the axes show and where do they start?
- B What colour is the graph?
- C How large is the logo?
- D Who printed the graph?

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22 **A delivery driver travels 180 km in 2 hours and then stops for 1 hour. The average speed over all 3 hours is**



A 60

B 90

C 120

D 180

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23 **The slope of a line is negative. As x increases, y**

- A increases
- B decreases
- C stays the same
- D becomes zero

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24 **A graph with a vertical axis from 90 to 100 makes a rise from 92 to 96 look dramatic, but the real increase is about**

- A 4
- B 8
- C 40
- D 80

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25 **Two towns are compared using pictographs where one symbol stands for 100 people in one town and 10 people in the other. The comparison is**

A fair

B misleading

C exact

D complete

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ANSWER KEY

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

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