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WGU C957 APPLIED ALGEBRA FINAL PRE ASSESSMENT 2022/2023

1. Which choice is a variable?

- A. The number of states in the United States of America
- B. The cost of your daily newspaper
- C. The amount a teenager makes babysitting
- D. Your shoe size: C

2. Which choice is a variable?

- A. The operating system on your phone
- B. The amount a babysitter charges per hour
- C. The name of the largest mountain range in the United States
- D. The colors and styles of your shoes: D

3. Which choice is a quantitative variable?

- A. S, representing the number of regular weekly shipping deliveries your company's trucks make
- B. P, representing the monthly profit based on the number of customers who needed plumbing services
- C. R, representing the monthly rent for your company's office building
- D. M, representing the federal minimum wage: B

4. In a lawn-mowing business, the amount of time an employee spends mowing a lawn depends on the size of the lawn. It might also depend on some other factors.

Which choice represents a qualitative variable in this lawn-mowing business?

- A. G, representing the amount of gas needed to mow a given lawn
- B. W, representing the number of hours the employee spends working each day
- C. H, representing the hilliness of the lawn
- D. M, representing the maximum amount of lawn that a given mower can complete per hour: C

5. Which variable is related to the variable temperature?

- A. Pen sales
- B. Computer sales

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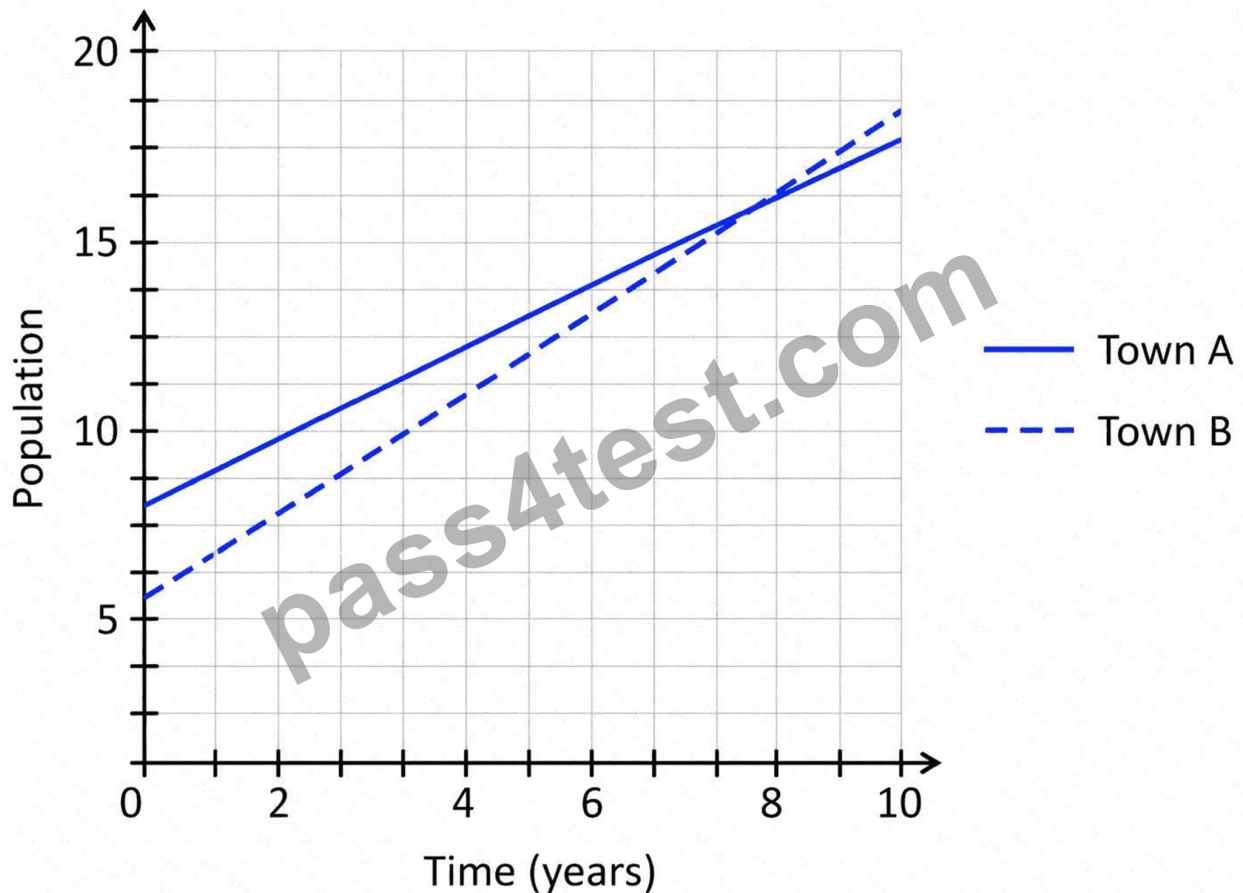
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WGU Applied Algebra FXO2 PFXP C957 Sample Questions (Q35-Q40):

NEW QUESTION # 35

The populations, in thousands, of two towns are shown in the graph, where the horizontal axis measures the time in years.



Which town's population is growing at a faster rate?

- A. Town B, because $8.0 > 5.5$
- B. Town A, because $8.0 > 5.5$
- C. Town A, because $1.3 > 1.0$
- **D. Town B, because $1.3 > 1.0$**

Answer: D

Explanation:

This question asks which town's population is growing at a faster rate.

Since both population graphs are straight lines, we compare their slopes.

The slope of a line represents the rate of change:

"slope" = "change in population" / "change in time"

From the graph:

Town A starts at about 8.0 thousand people and increases at a rate of about 1.0 thousand people per year.

Town B starts at about 5.5 thousand people and increases at a rate of about 1.3 thousand people per year.

Even though Town A starts with a larger population, the question asks about the growth rate, not the starting population.

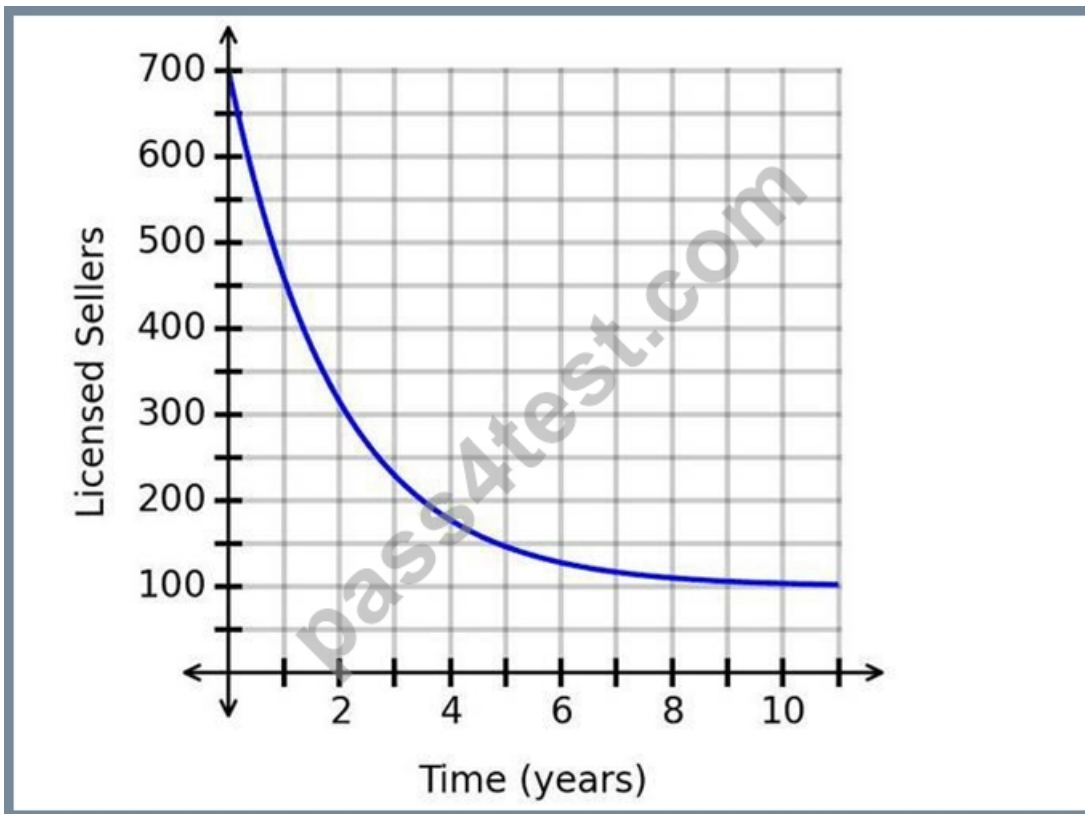
Compare the rates:

$1.3 > 1.0$

So Town B is growing faster than Town A.

NEW QUESTION # 36

As regulations change, the number of licensed sellers of a product decreases. The graph models the change in the number of licensed sellers over time.



What does the horizontal asymptote mean?

- A. After 11 months, the number of licensed sellers decreased to 100.
- B. The number of licensed sellers was initially 700.
- C. In the long run, the number of licensed sellers nears 100.
- D. Over time, the number of licensed sellers will increase back up to 700.

Answer: C

Explanation:

The graph shows a decreasing exponential model.

The vertical axis represents:

"Licensed sellers "

The horizontal axis represents:

"Time in years "

The graph starts near 700 licensed sellers and decreases over time. However, it does not appear to decrease all the way to 0. Instead, it levels off near:

$y=100$

That horizontal line is the horizontal asymptote.

A horizontal asymptote represents the long-term value the function approaches as time continues.

So the correct interpretation is:

"In the long run, the number of licensed sellers nears 100. "

Therefore, the correct answer is:

("C ")

NEW QUESTION # 37

The graph shows the estimated wait time, in minutes, based on the number of hours after 7:00 a.m.

What is the average rate of change of the wait time from point A to point B?

- A. 11.04
- B. -5.83
- C. 77.25
- D. -23.3

Answer: B

NEW QUESTION # 38

A vehicle is traveling away from a town at a fixed rate. After 1 hours, the vehicle is 200 miles from the town. After 4 hours, the vehicle is 395 miles from the town.

Which function represents the distance, d , between the vehicle and the town after t hours?

- A. $d(t)=135t+65$
- B. $d(t)=65t+135$
- C. $d(t)=135t$
- D. $d(t)=65t$

Answer: B

Explanation:

Because the vehicle is traveling away from the town at a fixed rate, the distance can be modeled by a linear function:

$$d(t)=mt+b$$

where:

m = " rate of change "

and

b = " initial distance from the town "

We are given two points:

(1#200)

and

(4#395)

These mean:

After 1hour, the vehicle is 200miles away.

After 4hours, the vehicle is 395miles away.

First, find the rate of change:

$$m=(395-200)/(4-1)$$

$$m=195/3$$

$$m=65$$

So the vehicle is moving away from the town at a rate of:

65 " miles per hour "

Now the function has the form:

$$d(t)=65t+b$$

Use the point (1#200)to find b :

$$200=65(1)+b$$

$$200=65+b$$

$$b=135$$

Therefore, the function is:

$$d(t)=65t+135$$

Check using $t=4$:

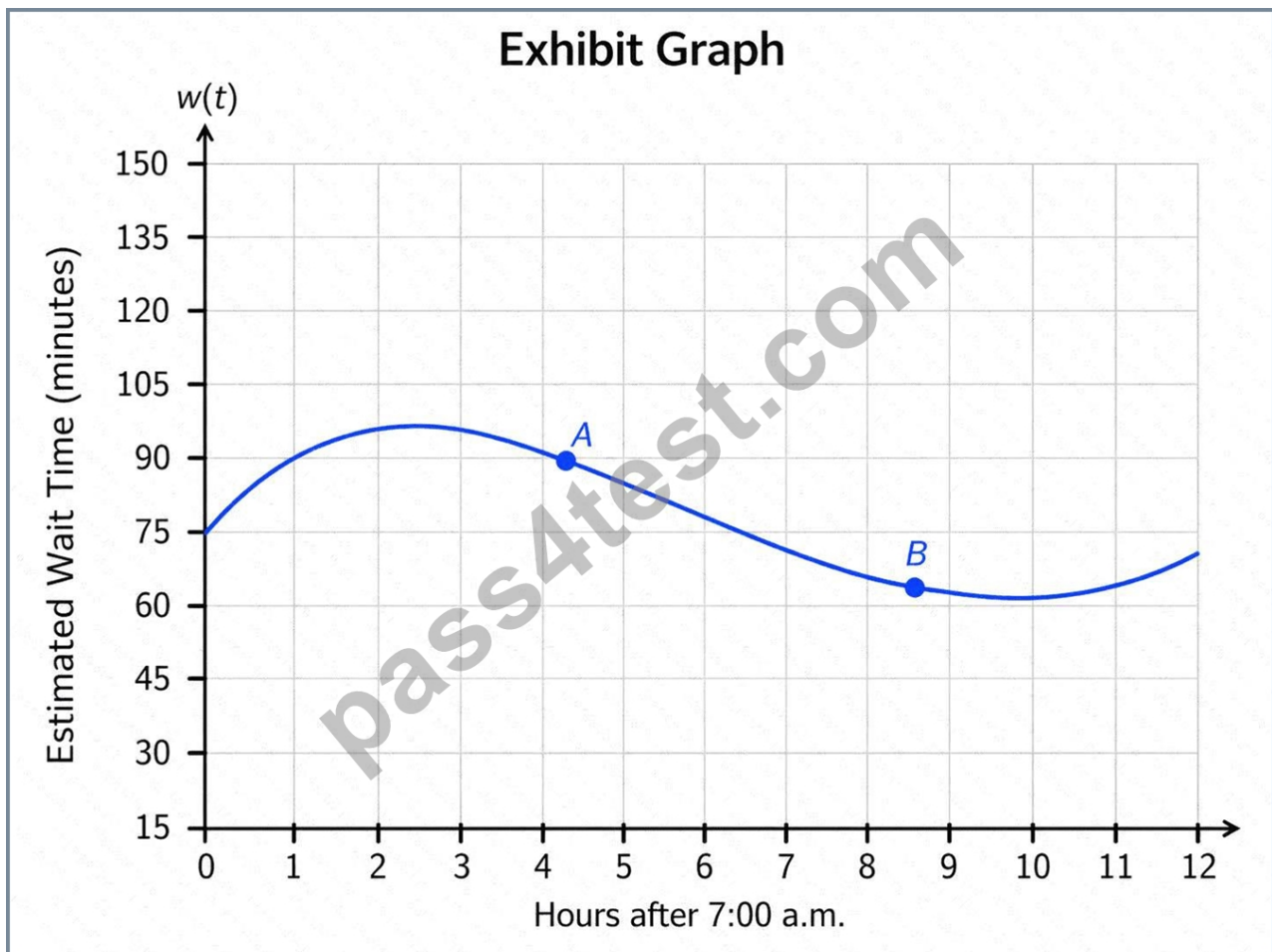
$$d(4)=65(4)+135$$

$$d(4)=260+135$$

$$d(4)=395$$

NEW QUESTION # 39

The graph shows the estimated wait time, in minutes, based on the number of hours after 7:00 a.m.



What is the average rate of change of the wait time from point A to point B?

- A. 11.04
- **B. -5.83**
- C. 77.25
- D. -23.3

Answer: B

Explanation:

From the graph, the horizontal axis represents:

t = "hours after 7:00 a.m. "

The vertical axis represents:

"estimated wait time in minutes "

Point A is approximately at:

$A = (5, 88.3)$

Point B is approximately at:

$B = (9, 65)$

The average rate of change from point A to point B is calculated using:

$(y_2 - y_1) / (x_2 - x_1)$

Substitute the values:

$(65 - 88.3) / (9 - 5)$

$= (-23.3) / 4$

$= -5.825$

Rounded to two decimal places:

-5.83

So, the wait time decreases by about:

5.83 "minutes per hour "

NEW QUESTION # 40

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