

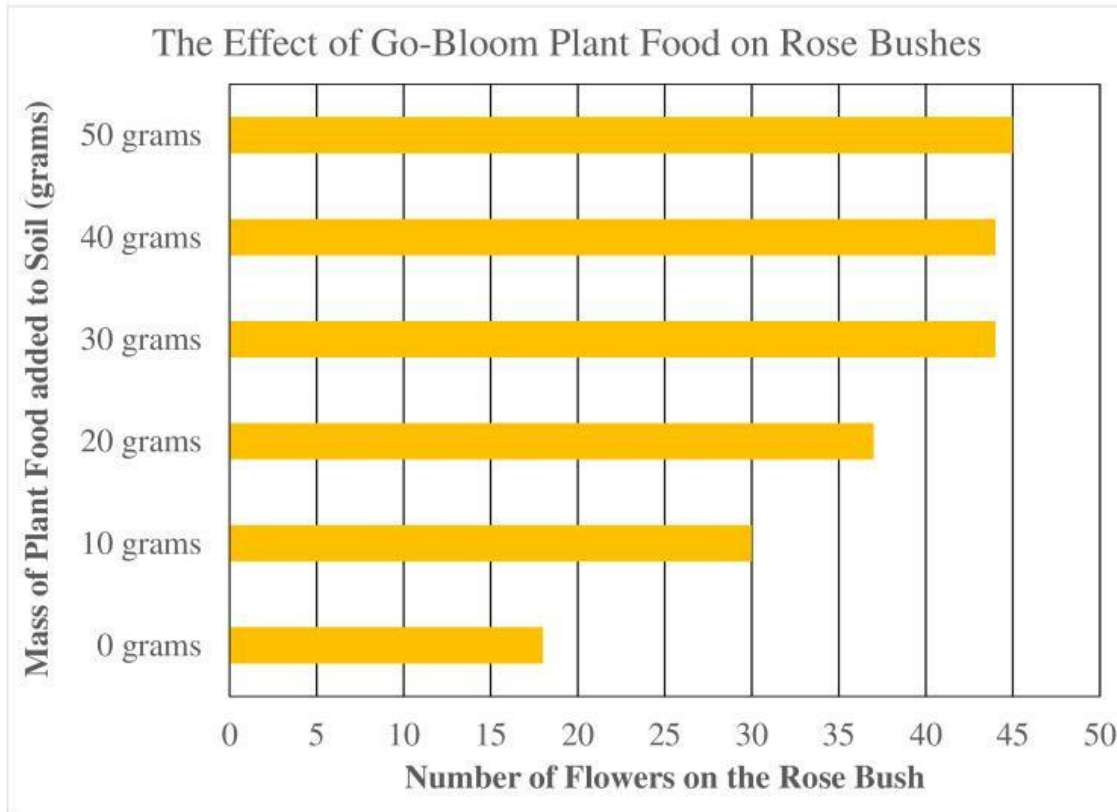
Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Graph Interpretation part 2

### Instructions

1. Read the notes Graphs and Interpreting Graphs.
2. Make your own notes about graphs as you read the notes.
3. Start on the assignment. Reach each question carefully.
  - For multiple choice questions, use the drop-down box to choose the letter of the correct answer.
  - For number-value answers, type **ONLY THE NUMBER** into the gray-shaded box. No units or letters.
  - For the two questions requiring short answers, type your sentences into the rectangular boxes.
4. Use the “Save for Later” button at the bottom of the document to preserve your work. You should press “Save for Later” after completing each section.
5. Use the “Finish!!” button at the bottom of the document to submit your work for grading. You should press “Finish!!” only when totally completed.

**Graph 5:** The Effect of Plant Food on Flowering Plants. Frederica works at a greenhouse. She wants to know if the new plant food Go-Bloom will cause her rose bushes to sprout more flowers. She adds varying amounts of Go-Bloom plant food to five rose bushes of comparable age and size. She does not add Go-Bloom to a sixth rose bush (her control). After 3 weeks, she counted the number of flowers on each rose bush.



21. **Complete the table.** Type the number of flowers based on the amount of Go-Bloom added. Use only whole numbers.

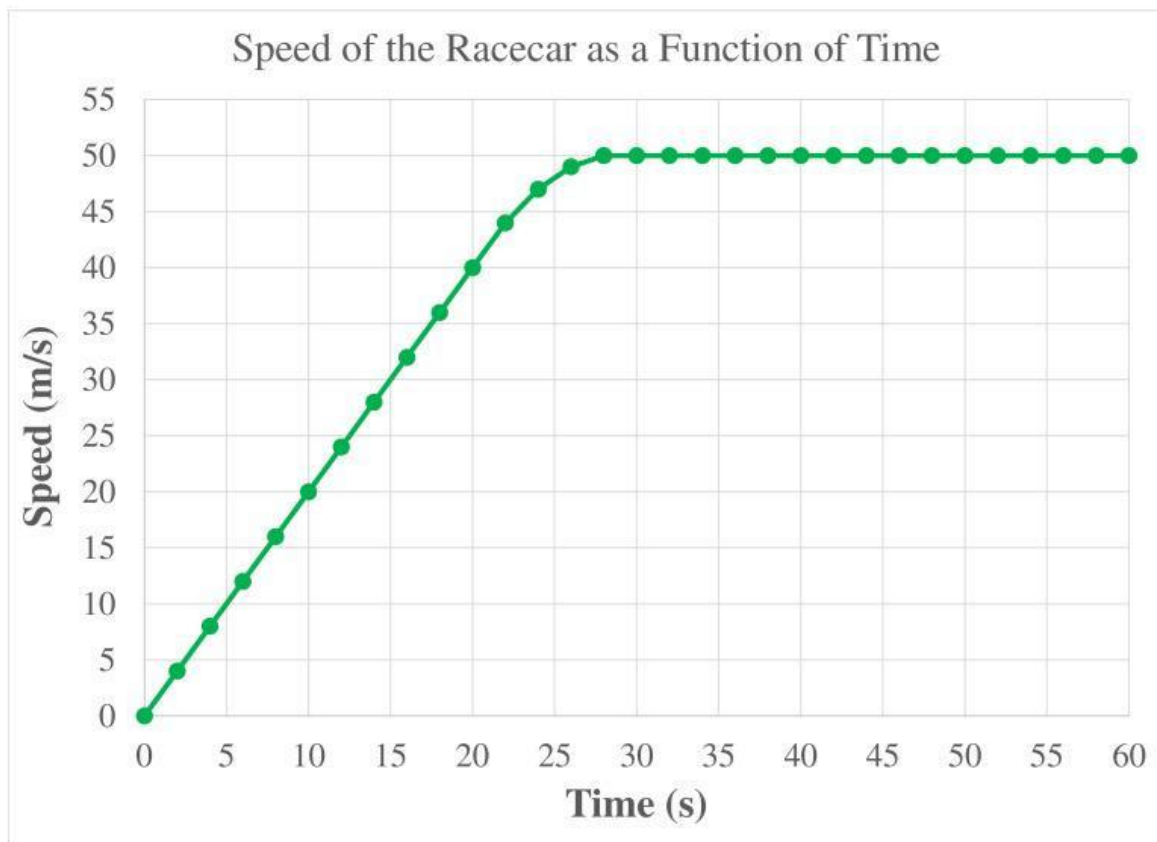
Number of Flowers	Mass of Go-Bloom Added	Number of Flowers	Mass of Go-Bloom Added
	0 grams		30 grams
	10 grams		40 grams
	20 grams		50 grams

- \_\_\_\_\_ 22. Which statement best describes the effect of Go-Bloom on the rose bushes compared to the control (0 grams/none added)?
- A. Go-Bloom had zero effect on rose bushes' ability to make more flowers.
  - B. Go-Bloom caused only one or two rose bushes make more flowers.
  - C. Go-Bloom caused all the rose bushes make more flowers.
  - D. Go-Bloom caused the rose bushes to grow bigger and healthier.

- \_\_\_\_\_ 23. Which statement best describes the effect of adding more and more grams of Go-Bloom to the rose bushes?
- A. All quantities of Go-Bloom added to the rose bushes caused the bushes to make around the same number of flowers.
  - B. As the quantity of Go-Bloom added to the rose bushes was increased, the number of flowers on the bushes increased.
  - C. As the quantity of Go-Bloom added to the rose bushes was increased, the number of flowers on the bushes decreased.
  - D. As the quantity of Go-Bloom added to the rose bushes was increased, the rose bushes started to die.

24. Study the effects of adding 30, 40, and 50 grams of Go-Bloom to rose bushes. In one complete sentence, explain if adding 40 grams or 50 grams of Go-Bloom plant food to rose bushes is a good idea or a bad idea?

**Graph 6:** Monitoring Speed with Time. The Incognito Automobile Company has designed their new racecar, called the Guzzler. Engineers monitor the Guzzler's speed on the racetrack. The graph below shows the racecar's speed (how fast it moves) as a function of time.



25. **Complete the table.** How fast is the car moving at different points in time. Type the speed into the gray boxes. Use only whole numbers. Do not use letters or units.

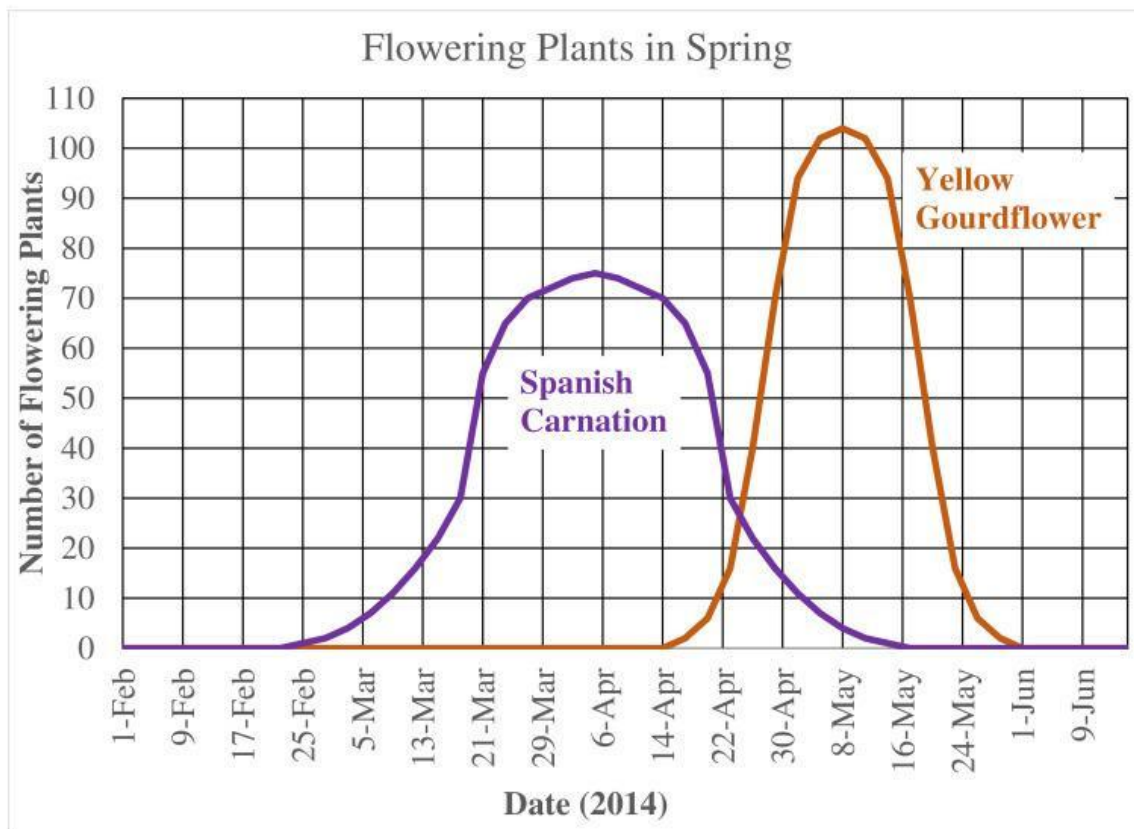
Speed (m/s)	Time
	0 s
	2 s
	10 s
	14 s

Speed (m/s)	Time
	20 s
	24 s
	30 s
	45 s

- \_\_\_\_\_ 26. Looking at the graph, what is the maximum speed (fastest speed) of the racecar?  
A. 40 m/s C. 60 m/s  
B. 50 m/s D. 70 m/s
- \_\_\_\_\_ 27. At what time (in seconds) does the racecar reach its fastest speed?  
A. At 20 seconds C. At 28 seconds  
B. At 24 seconds D. At 32 seconds
- \_\_\_\_\_ 28. Study the graph between 0 seconds and 24 seconds. Which statement best describes the trend of that segment of the graph?  
A. The car is getting faster with time.  
B. The car is moving at the same speed.  
C. The car is getting slower with time.  
D. The car first gets faster, then it gets slower.
- \_\_\_\_\_ 29. Study the graph between 30 seconds and 60 seconds. Which statement best describes the trend of that segment on the graph?  
A. The car is getting faster with time.  
B. The car is moving at constant speed.  
C. The car is getting slower with time.  
D. The car first gets faster, then it gets slower.
- \_\_\_\_\_ 30. Study the entire graph. Which statement best describes the racecar's speed from start to 60 seconds?  
A. The car got faster and faster.  
B. The car moved at the same speed.  
C. The car got faster and faster, then moved a constant fast speed.  
D. The car got faster and faster, then it got slower and slower.



**Graph 7:** Delbert grows two types of blooming plants in his greenhouse, the Spanish carnation and the yellow gourdflower. Delbert counts his plants daily and notes if they are blooming (with flowers) or not. The graph below shows which plants were with flowers and how many flowered on spring days in 2014.



31. **Complete the table.** How many plants were blooming on the days below. Type whole numbers only.

Spanish Carnation	
Number of blooms	Date
	Feb 17
	Mar 8
	April 14
	April 22

Yellow Gourdflower	
Number of blooms	Date
	April 28
	May 4
	May 16
	May 24

- \_\_\_\_\_ 32. On which day in 2014 did the Spanish Carnations start to bloom?  
A. February 1, 2014                      C. February 24, 2014  
B. February 17, 2014                      D. March 5, 2014
- \_\_\_\_\_ 33. On which day did the Spanish Carnations reach peak bloom (the most plants were in a state of flowering)?  
A. March 29, 2014                      C. April 10, 2014  
B. April 5, 2014                      D. April 14, 2024
- \_\_\_\_\_ 34. On which day was the last of the Spanish Carnations in bloom (with flowers)?  
A. May 15, 2014                      C. May 28, 2014  
B. May 21, 2014                      D. May 31, 2014
- \_\_\_\_\_ 35. On which day in 2014 did the yellow gourdflower start to bloom?  
A. April 10, 2014                      C. April 30, 2014  
B. April 15, 2014                      D. May 8, 2014
- \_\_\_\_\_ 36. On which day did the yellow gourdflowers reach peak bloom (the most plants were in a state of flowering)?  
A. May 1, 2014                      C. May 14, 2014  
B. May 8, 2014                      D. May 24, 2014
- \_\_\_\_\_ 37. On which day was the last of the yellow gourdflower in bloom (with flowers)?  
A. May 15, 2014                      C. May 28, 2014  
B. May 21, 2014                      D. May 31, 2014
- \_\_\_\_\_ 38. Which plant species had the longest blooming season?  
A. Spanish carnation  
B. Yellow gourdflower  
C. Both had blooming seasons of equal length.  
D. Only the Spanish carnation had a blooming season.
- \_\_\_\_\_ 39. Which plant species had the most plants in bloom at one time?  
A. Spanish carnation  
B. Yellow gourdflower  
C. Both had an equal number of plants in bloom at one time.  
D. Only the yellow gourdflower were in bloom.