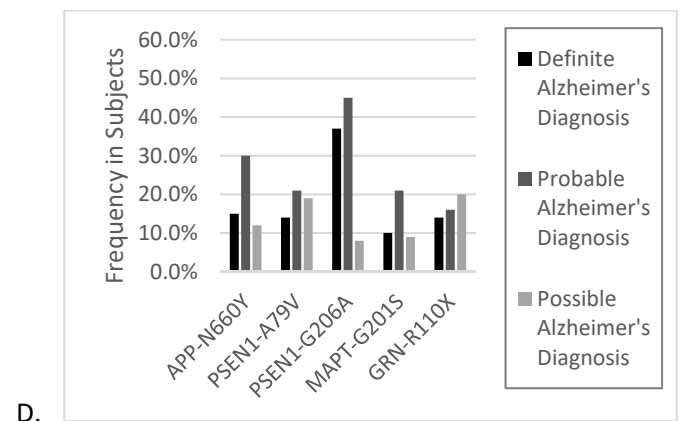
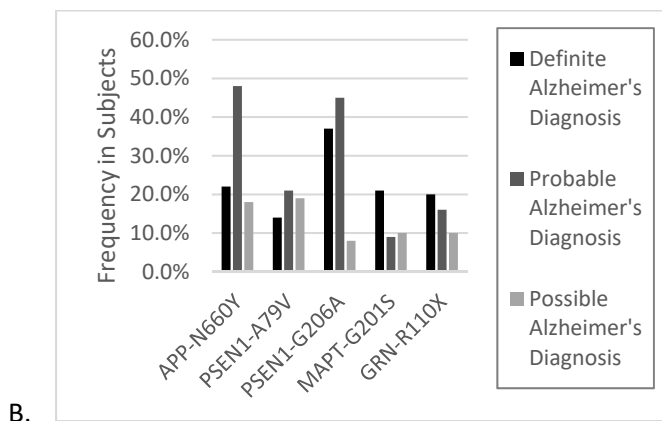
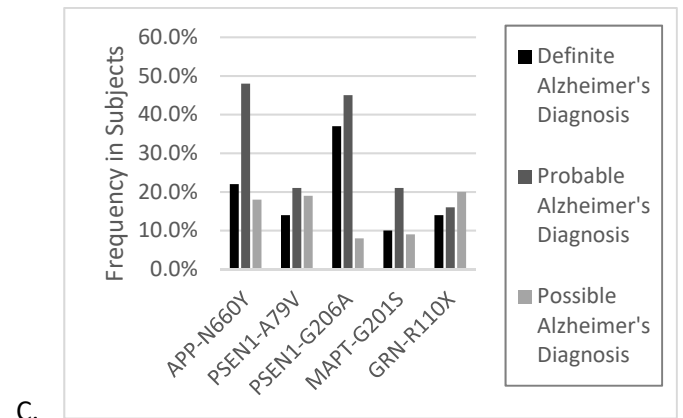
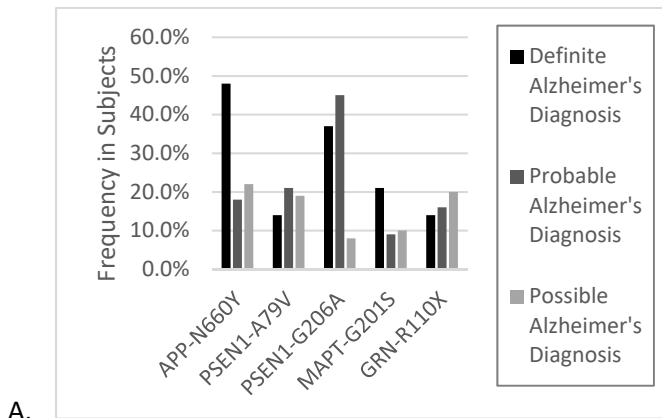


Scientists design clinical studies to test new gene therapy for the treatment of early-onset Alzheimer’s Disease.

Frequency of Alzheimer’s Diagnoses in Subjects with Rare Gene Variations			
Gene Variation	Definite Alzheimer's Diagnosis	Probable Alzheimer's Diagnosis	Possible Alzheimer's Diagnosis
APP-N660Y	22.0%	48.0%	18.0%
PSEN1-A79V	14.0%	21.0%	19.0%
PSEN1-G206A	37.0%	45.0%	8.0%
MAPT-G201S	10.0%	21.0%	9.0%
GRN-R110X	14.0%	16.0%	20.0%

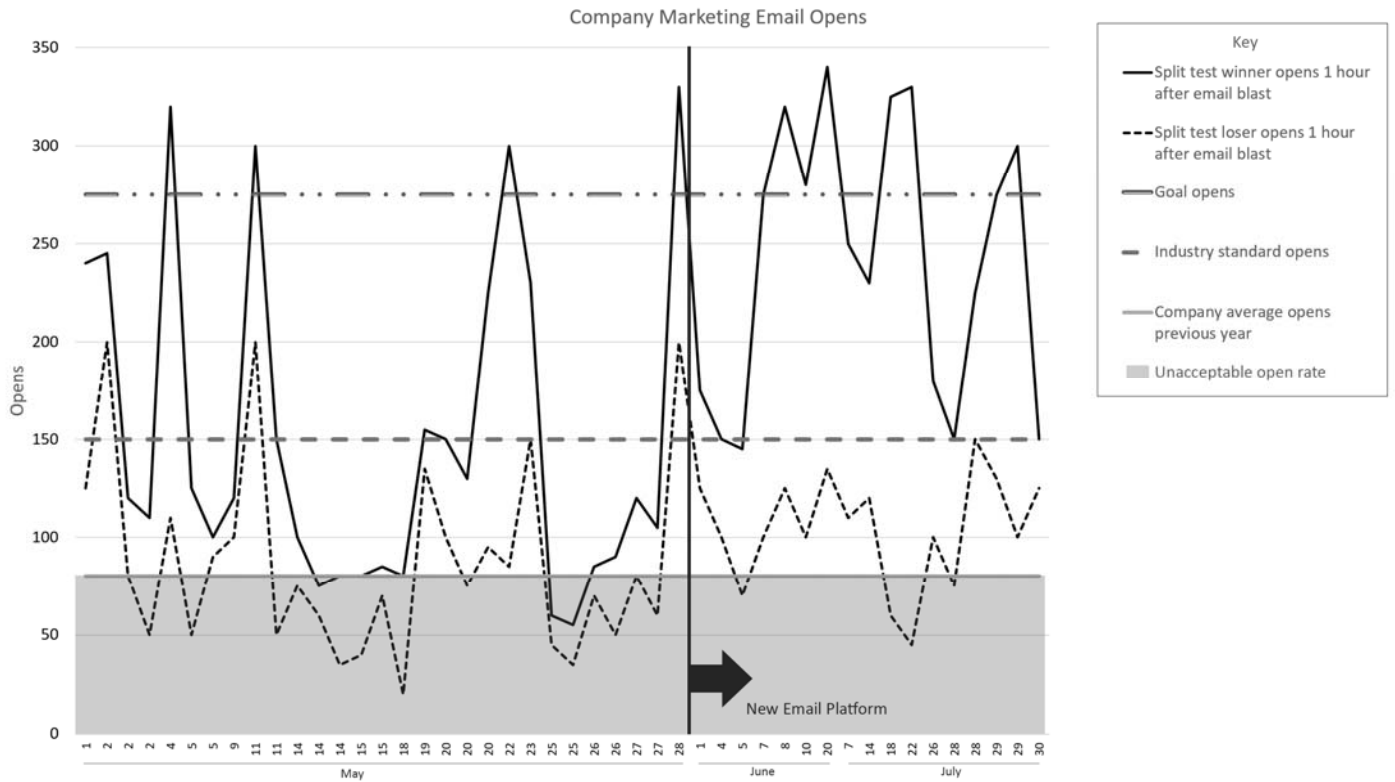
1. Which bar graph accurately reflects the data from the table shown?



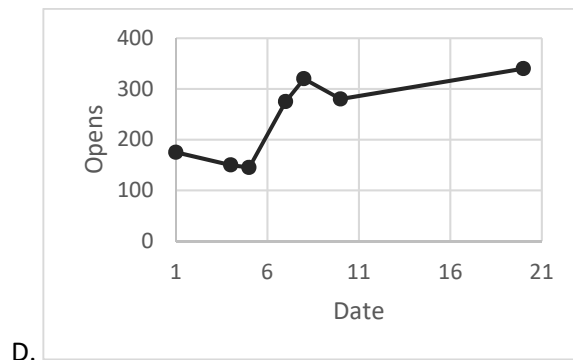
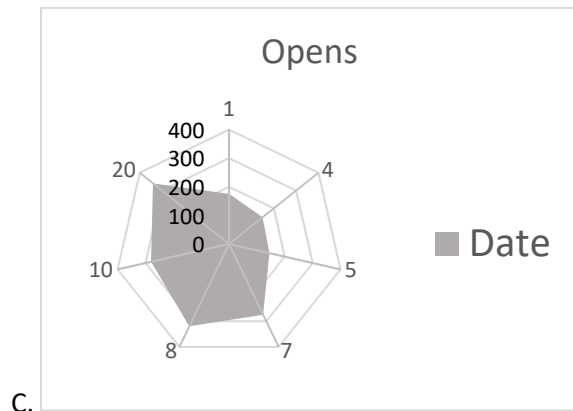
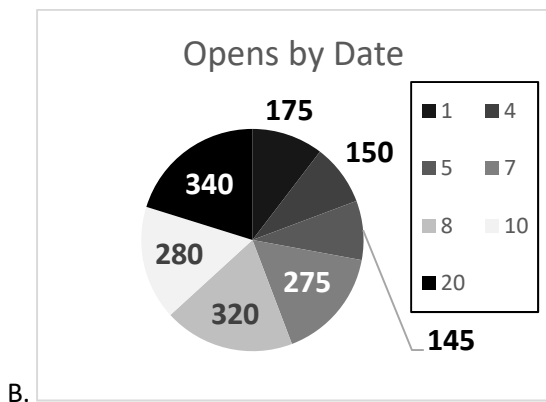
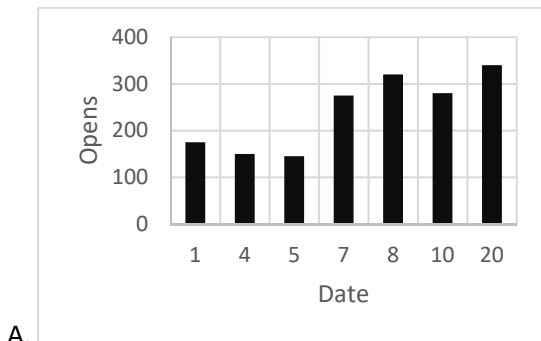
2. What is the gene variation with the highest frequency of probable Alzheimer’s diagnoses among the clinical subjects?

- A. APP-N660Y
- B. PSEN1-A79V
- C. PSEN1-G206A
- D. MAPT-G201S

A marketing manager uses data to study the impact of using a new email platform.



3. Which graphic best shows, for split test winners, the trend in opens within 1 hour of sending an email blast in June as time progressed from the beginning of the month to the end of the month?



4. Which date after the implementation of the new email platform had the greatest difference in opens within 1 hour of sending an email blast between the split test winners and the split test losers?

- A. May 4
- B. May 22
- C. July 7
- D. July 22

5. What was the highest number of opens within 1 hour of sending an email blast among split test losers on May 2nd?

- A. 80
- B. 120
- C. 200
- D. 250

Maintenance managers receive text notifications from a dispatcher to alert them of how to assist customers and employees.

Unit #	Codes (Last 2 Digits)
1xxx - First Floor Unit #	00 Call
2xxx - Second Floor Unit #	22 Clean
3xxx - Third Floor Unit #	23 Inspect
4xxx - Fourth Floor Unit #	24 Ignore
Phone Extensions	25 Noise Complaint
5xxx - Main Office	26 A/C and Heat
6xxx - Gym	27 Plumbing
7xxx - Laundry	
8xxx - Sales	
9xxx - Pool House	



6. What unit is this text notification referring to?

- A. 243
- B. 2430
- C. 3023
- D. 023

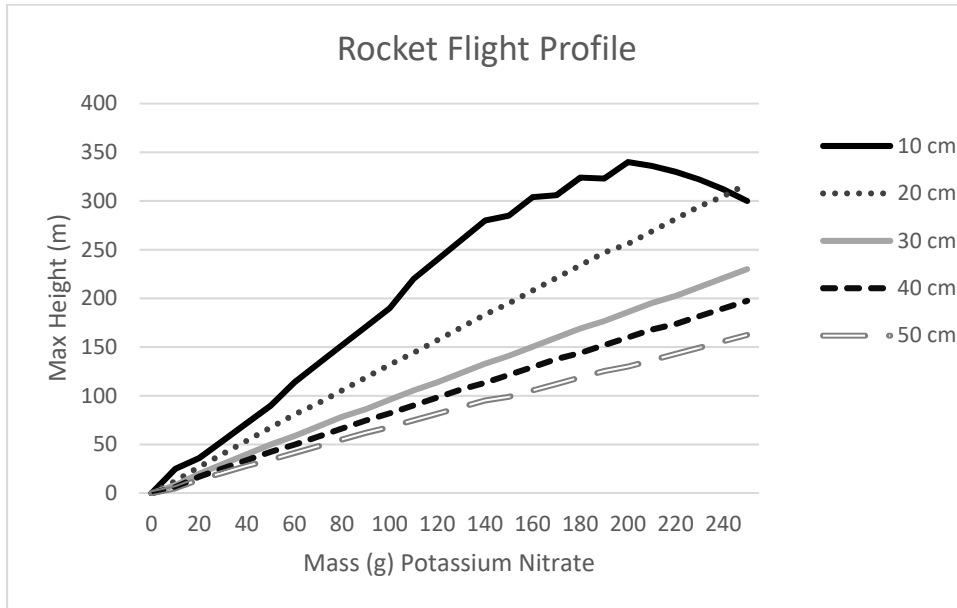
7. The manager who received this text called the office at extension 6300 to ask more about what she should be inspecting for. What floor and type of room should the manager be going to?

- A. First floor; Gym
- B. Second floor; Gym
- C. First floor; Laundry
- D. Second floor; Laundry

8. A new dispatcher keeps forgetting to text the last two digits in the codes. You receive a text with the code 7201. What is this text instructing you to do?

- A. Call a laundry extension.
- B. Go to the laundry area.
- C. Inspect unit 7201.
- D. Clean unit 7201.

A pyrotechnics manufacturer uses a chart to determine the mass of potassium nitrate needed to make firework rockets fly higher.



9. Each time the mass of potassium nitrate in the 30 cm rocket increases by 60 grams, the maximum height of the rocket's flight increases by approximately:

- A. 25 m
- B. 50 m
- C. 100 m
- D. 150 m

10. In relation to the 40 cm rocket, if the maximum height of its flight path continued at the trend shown from a potassium nitrate mass of 140 to 240 g, the max flight path height for a potassium nitrate mass of 300 g would be:

- A. Less than 200 m
- B. 200 m
- C. 250 m
- D. 300 m

11. A new rocket with a similar design has a max height of 300 m when flown with 200 g of potassium nitrate. What is the new rocket's approximate length?

- A. 5 cm
- B. 10 cm
- C. 15 cm
- D. 25 cm

12. In general, what is the relationship between potassium nitrate mass and max height?

- A. As potassium nitrate mass rises, max height rises.
- B. As potassium nitrate mass rises, max height falls.
- C. As potassium nitrate mass rises, max height remains constant.
- D. As potassium nitrate mass falls, max height rises.