SCENARIO 1 – THE 7-DAY GAMING RIVALRY

(Double Bar Graph)

Two Grade 8 teams competed in a week-long gaming tournament:

Team Apex vs **Team Vortex**.

They tracked how many matches each team won per day.

Day	Team Apex Wins	Team Vortex Wins
Monday	3	4
Tuesday	5	6
Wednesday	4	5
Thursday	6	5
Friday	8	7
Saturday	10	9
Sunday	7	8

You Must:

1. Create a **double bar graph**.
2. Include:
    - A clear title
    - Labeled axes
    - Units
    - Even scale
    - A legend identifying each team

Then Answer:

1. Which team had more total wins for the week?
2. On which days was the competition closest?
3. Why is a double bar graph better than two separate graphs?
4. If someone wanted to make Team Apex look WAY more dominant, what could they change about the scale?



SCENARIO 2 – HOMEROOM STEP SHOWDOWN

(Line Graph Required)

Three Grade 8 homerooms competed in a 5-day "Move More" challenge. Each class tracked their **average steps per student** per day.

Day	8-1	8-2	8-3
Monday	5,200	6,000	4,800
Tuesday	6,100	6,500	5,300
Wednesday	7,300	7,000	6,200
Thursday	8,000	7,400	6,900
Friday	7,800	8,100	7,200

You Must:

1. Create a **line graph** showing all three classes.
2. Use different colors for each class.
3. Include:
    - A clear title
    - Axis labels with units (steps)
    - Even scale
    - Legend

Then Answer:

1. Which class improved the most overall?
2. Which day had the highest average steps across all classes?
3. Why is a line graph better than a bar graph for this data?
4. If someone started the Y-axis at 4,500 instead of 0, how would that change how dramatic the improvements look?



SCENARIO 3 – FRIDAY HOT LUNCH DOMINATION
(Circle Graph Required)

Student Council wants to know which Friday Hot Lunch option is the most popular so they can decide what to order more often.

100 students voted.

Option	Number of Votes
Pizza	32
Subway	24
McDonald's	18
Edo Japan	14
Booster Juice	12

You Must:

1. Convert each category into a **percentage**.
2. Create a **circle graph (pie chart)**.
3. Label each section with:
    - The food option
    - The percentage
4. Include a clear, descriptive title.



Then Answer:

1. What percentage of students chose Pizza?
2. Which two options together make up nearly half the votes?
3. Why is a circle graph appropriate for this data?
4. If someone wanted Pizza to look much more popular than it actually is, what could they change about the graph design?

