

Name:

Date:

Bus Scheduling Activity

AI can analyze data to predict the number of passengers at different times of the day. By using these predictions, we can create a timetable that ensures buses or trains are available when they are most needed.

Use the AI predictions below to fill in the timetable:

- Peak hours: 7:00 AM - 9:00 AM and 4:00 PM - 6:00 PM
- Off-peak hours: 9:00 AM - 4:00 PM and 6:00 PM - 9:00 PM
- During peak hours, a bus is needed every 10 minutes.
- During off-peak hours, a bus is needed every 30 minutes.

Fill in the timetable based on the AI predictions.

Time	Frequency
7:00AM - 8:00 AM	
8:00AM - 9:00AM	
9:00AM - 10:00AM	
10:00AM - 11:00AM	
11:00AM - 12:00PM	
12:00PM - 1:00PM	
1:00PM - 2:00PM	
2:00PM - 3:00PM	
3:00PM - 4:00PM	
4:00PM - 5:00PM	
5:00PM - 6:00PM	
6:00PM - 7:00PM	
7:00PM - 8:00PM	
8:00PM - 9:00PM	

Answer these questions:

1. How many buses are scheduled during the peak hours from 7:00 AM to 9:00 AM?

2. How many buses are scheduled during the off-peak hours from 9:00 AM to 4:00 PM? _____

3. Why do you think more buses are scheduled during peak hours?
