

Name _____



Shift Strategists

Directions: Read the work shift schedule. Use the information to answer questions about **available shifts**, **overlapping shifts**, and **which choices earn the most hours**.

After School Snack Shop Shift Schedule

The snack shop runs every weekday. Students may only work **one shift at a time** and **no overlapping shifts** are allowed.

- Shift A: 3:15 p.m. to 4:00 p.m.
- Shift B: 3:45 p.m. to 4:45 p.m.
- Shift C: 4:00 p.m. to 5:00 p.m.
- Shift D: 4:30 p.m. to 6:00 p.m.
- Shift E: 5:00 p.m. to 6:30 p.m.
- Shift F: 6:00 p.m. to 7:00 p.m.

Shift Selector Questions

1. Which two shifts **overlap between 3:45 p.m. and 4:00 p.m.**?
2. Which two shifts **overlap between 4:30 p.m. and 5:00 p.m.**?
3. Which shifts **do not overlap with Shift A**?
4. Which shifts **do not overlap with Shift F**?
5. If a student can only work **after 5:00 p.m.**, which shifts are available?
6. If a student must leave by **5:00 p.m.**, which shifts are possible?
7. Which **single shift** gives the **most hours** of work?
8. Which **two non overlapping shifts** give the **maximum total working time**?
9. Which pair of shifts gives **exactly two hours of total work** without overlapping?
10. If a student wants to work **the earliest possible time and the latest possible time** without overlapping, which two shifts should they choose?