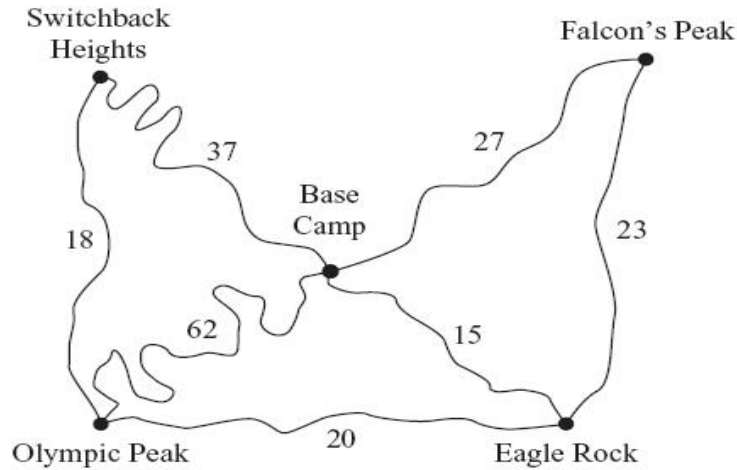


Meadows Camp has several hiking trails. The trails are shown in the diagram below, where the numbers represent the time, in minutes, it should take to hike between any two locations.



- Based on the times shown in the diagram, what is the amount of time, in minutes, it should take a person to hike from Base Camp to Olympic Peak and then to Eagle Rock? Show or explain how you got your answer.
- Erin and Kyle are both hiking from Switchback Heights to Falcon's Peak.
 - Erin is hiking the trail from Switchback Heights to Base Camp and then to Falcon's Peak.
 - Kyle is hiking the trail from Switchback Heights to Olympic Peak to Eagle Rock and then to Falcon's Peak.

Based on the times shown in the diagram, who should get to Falcon's Peak in the least amount of time? Show or explain how you got your answer.

Jennifer wants to take the most challenging route possible from Olympic Peak to Falcon's Peak, without going to any one location more than once. She thinks the route that should take the greatest amount of time to complete will be the most challenging.

- What are the six different routes that Jennifer can take **without** going to any one location more than once?
- Using your answers from part (c), which route from Olympic Peak to Falcon's Peak should take the greatest amount of time to complete? Show or explain how you got your answer.