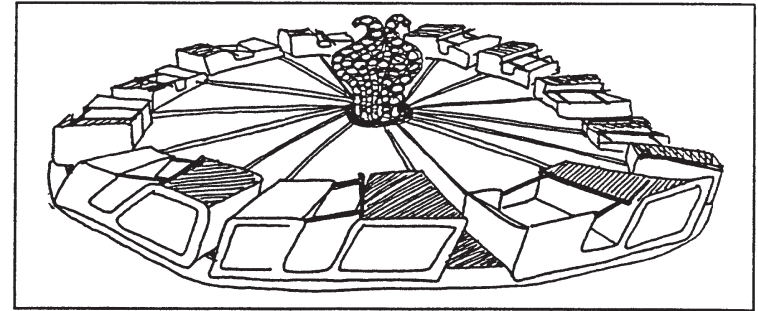


MUSIK EXPRESS



QUESTIONS

1. As you go over the high point you feel (heavier, lighter, no change).
2. When loading each car, the (more massive, less massive) rider should be seated on the outside. Why?
3. The more massive rider requires (a larger, a smaller, the same) force to hold on the inside.
4. The centripetal acceleration on a large rider is (more than, less than, the same) as on a small rider.
5. Explain how the ride would be different without the hills and valleys.
6. Does the pitch of the music remain constant during the ride? Explain.

Collect the following data for use with later calculations:

1. Estimated radii for inside and outside riders: _____ m _____ m
2. Height of high point: _____ m
3. Time for one revolution at the maximum speed: _____ s
4. Total number of revolutions in one ride: _____
5. Time for one ride: _____ s