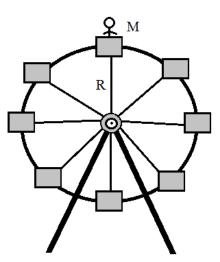
Ferris Wheel Centripetal Force

An amusement park has several Ferris wheels (rotating circular structures) of varying size. The radii, R, of these wheels, as well as the mass, M, of different passengers, are listed below.



Scenario	М	R
Α	75 kg	26 m
В	60 kg	52 m
С	100 kg 120 kg	13 m
D	120 kg	26 m
E	60 kg	13 m
F	80 kg	40 m

For each scenario, rank the minimum velocity necessary for the passenger to momentarily lose contact with their seat when they reach the top of the Ferris wheel.

Largest 1. _____ 2. ____ 3. ____ 4. ____ 5. ____ 6. ____ Smallest

Justify your ranking: