

Student Data Table

Stationary Ball Bearings	Colliding Ball Bearings	Colliding Speed	Observations
3	1	Slow	
3	1	Fast	
3	2	Slow	
3	2	Fast	
4	1	Slow	
4	1	Fast	

Post-Lab Questions

1. What type of collision did the ball bearings experience—elastic or inelastic? Explain.
2. What happened to the colliding ball bearing(s) after the collision?
3. How did the number of stationary ball bearings affect the collision results?
4. How did the speed of the colliding ball affect the speed and number of ball bearings knocked away?
5. How did the number of colliding ball bearings affect the number of ball bearings knocked away?
6. *(Optional)* If the colliding ball bearings had more mass than the individual stationary ball bearings, how would this affect the results of the collisions? *(Would more ball bearings be knocked away? Fewer? Would the colliding ball bearing stop after the collision? How would the speed of the balls that are knocked away be affected?)*