Name: Name _____ Class: _____

Velocity and Acceleration

GRADES 6-8

Force Diagram

Chest Pass	Bounce Pass	Overhead Pass
answer here	answer here	answer here

Data Collection

	Distance (meters)	Time (seconds)
Chest Pass	answer here	answer here
Bounce Pass	answer here	answer here
Overhead Pass	answer here	answer here

Name: Name _____ Class: _____

Velocity and Acceleration

GRADES 6-8

Data Collection

	Initial Speed	Final Speed (distance divided by time)	Acceleration (initial- final divided by time)	Mass of ball	Force Acting on ball (N) (Mass times Acceleration)
Chest Pass	**0 m/s**	answer here	answer here	**0.625 kg**	answer here
Bounce Pass	**0 m/s**	answer here	answer here	**0.625 kg**	answer here
Overhead Pass	**0 m/s**	answer here	answer here	**0.625 kg**	answer here

Calculate the force acting on the ball when the NBA's Steph Curry shoots a free throw at the acceleration of 8.3 m/s2 (mass of the ball: 0.625 kg).

answer here