

Due Monday December 12, 2011

Tommy lives in Coordinateville. The center of town is located where all directions meet. [Think $(0, 0)$]. His work place is located 4 miles west and seven miles south from the center of town. His school is located 2 miles north and 11 miles east from the center of town. Pemda's Grocery is located exactly half way between Tommy's work and school. If Tommy lives 6 miles west and nine miles north of the center of town, what is the distance from his house to the grocery store? Show all work. Round to the nearest tenth if necessary.