Lesson 8 Problem-Solving Practice

Divide Decimals by Decimals

MARATHON **For Exercises 1 and 2, use the table that shows course records for the Boston Marathon.**

Course Records for the Boston Marathon			
Division	**Record Holder**	**Year**	**Time (h)**
Men's Open	Robert Cheruiyot	2006	2.121
Women's Open	Margaret Okayo	2002	2.345
Men's Wheelchair	Ernst Van Dyk	2004	1.305
Women's Wheelchair	Jean Driscoll	1994	1.523

1. The Boston Marathon is 26.2 miles. Use the times shown in the table to calculate the miles per hour for each division winner. Round to the nearest thousandth.

2. To the nearest hundredth, how many times as great was the men's open time as the women's wheelchair time?

3. **DRIVING** The Martinez family drove 48.7 miles to the river. It took them 1.2 hours to get there. How fast did they drive? Round to the nearest whole number.

4. **SHOPPING** Nikki is buying some refrigerator magnets for her friends. Her total bill is $16.80. If magnets are $0.80 each, how many magnets is she buying?

5. **SCALE MODEL** Matt is making a scale model of a building. The model is 3.4 feet tall. The actual building is 41.48 feet tall. How many times as great is the actual building as the model?

6. **COOKING** Yori has 14.25 cups of cupcake batter. If each cupcake uses 0.75 cup of batter, how many cupcakes can Yori make?