Multi-Step Proportion Problems

Independent Set 5.10

Name_____
Date_____
Period_____

Six questions, on your own, in silence. Show the step that does the work.

1. A car gets 32 miles per gallon and its tank holds 14 gal. How far does it go on a tank?

2. That car makes a 1,000-mi trip. How many tanks of gas does it use? (Part of a tank counts as a whole tank.)

3. A recipe for 4 servings uses $1\frac{1}{4}$ cups of rice. How much rice for 10 servings?

4. $1\text{ km} = 0.62\text{ mi}$. A train does 120 km/h; a bus does 70 mi/h. Which is faster? Show the speeds in one unit.

5. Juice is mixed orange : mango : water = $3:2:5$. A batch uses 9 cups of orange. How many cups is the whole batch?

6. A plan is drawn at $1\text{ in} : 6\text{ ft}$; a room is 2 in by 3.5 in on it. Find the room's real area.