

Math 201 Quiz 10 Fall 2009 NAME:

No calculators, ipods, cell phones! Show your work!

1. Three children took a hike, carrying one heavy backpack. One child carried the backpack for $\frac{1}{6}$ of the hike, and a second carried it for $\frac{3}{8}$ of the hike. For what part of the hike did the third child carry the backpack? Which child carried the backpack for the greatest part of the hike? Use picture(s) to illustrate your solution.

2. Working on his summer tan, Zonker leaves $\frac{3}{5}$ of his skin exposed. He has only enough lotion to cover $\frac{2}{3}$ of his exposed skin. What part of his body will be unprotected? Draw a neatly labeled diagram displaying your solution.

3. How would you explain the meaning of $1 \div \frac{1}{6}$ to a fourth grader?

4. (a) A farmer keeps 40% of his land uncultivated. Two thirds of the cultivated portion is planted with corn. What fraction of the entire land is planted with corn?

(b) Alex ate $\frac{1}{2}$ of a pizza. Tandy ate $\frac{1}{3}$ of what was left. Finally, Tabby ate $\frac{1}{2}$ of what was left. How much of the whole pizza did Tabby eat?