

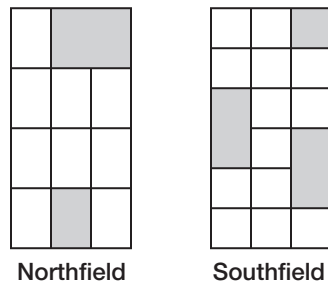
3-1 Word Problem Practice

Fractions and Decimals

1. TAX Ted pays $\frac{2}{7}$ of his salary in taxes, while Carl pays $\frac{5}{16}$ of his salary in taxes. Who pays more of his salary in taxes?

2. ROCKS Jan and Bob are classifying rocks in geology class. They begin the classification by finding the weight of each rock. Jan's rock weighs $\frac{6}{100}$ kg while Bob's weighs 0.016 kg. Whose rock is heavier?

3. BUILDING LOT The two lots in the diagram below are subdivided equally by the lines shown. The shaded areas in each lot have been set aside for housing.



Which of the two lots, Northfield or Southfield, has the greater area of land set aside for housing?

4. TESTS Petra earned scores of $\frac{30}{32}$, $\frac{29}{31}$, and $\frac{28}{30}$ on her last three English quizzes. Find each score as a decimal rounded to the nearest thousandth. Arrange the fractions in order from least to greatest.

5. PAINT Angie is mixing together yellow paint and blue paint to make 2 shades of green paint. She will mix the paint in two canisters. She will fill $\frac{4}{9}$ of canister A with yellow paint; she will fill 0.46 of canister B with yellow paint. She fills the rest of each can with blue paint.

- a. In which canister will Angie pour more yellow paint?
- b. To the nearest hundredth of a canister, how much more blue paint than yellow paint does Angie use in all?
- c. Angie can paint one room with $\frac{2}{3}$ of a canister of one shade of green paint. She will need $\frac{5}{8}$ of a canister of the same shade of green paint for a second room. Does Angie have enough of this shade of green paint to finish the second room? If not, how much additional paint will she need? Express your answer in decimal form.