Lesson 6 Problem-Solving Practice

Write the word ratio and proportion in the space provided. On separate paper copy your proportion and solve using one of the methods we have learned (equivalent fractions, simplify one ratio first, or algebraic steps). You must show steps.

1. **USAGE** A 12-ounce bottle of shampoo lasts Enrique 16 weeks. How long would you expect an 18-ounce bottle of the same brand to last him?

2. **COMPUTERS** About 13 out of 20 homes have a personal computer. On a street with 60 homes, how many would you expect to have a personal computer?

3. **SNACKS** A 6-ounce package of fruit snacks contains 45 pieces. How many pieces would you expect in a 10-ounce package?

4. **TYPING** Ingrid types 3 pages in the same amount of time that Tanya types 4.5 pages. If Ingrid and Tanya start typing at the same time, how many pages will Tanya have typed when Ingrid has typed 11 pages?

5. **SCHOOL** A grading machine can grade 48 multiple-choice tests in 1 minute. How long will it take the machine to grade 300 tests?

6. **AMUSEMENT PARKS** The waiting time to ride a roller coaster is 20 minutes when 150 people are in line. How long is the waiting time when 240 people are in line?

7. **PRODUCTION** A shop produces 39 wet suits every 2 weeks. How long will it take the shop to produce 429 wet suits?

8. **FISH** Of the 50 fish that Alan caught from the lake, 14 were trout. The estimated population of the lake is 7,500 fish. About how many trout would you expect to be in the lake?