

Math Awareness Week Competition 2008 Examination for 5th-6th Grades

DIRECTIONS: [40 Minutes - 5 Questions] Start each new problem on a separate page. **Show your work!** Answers must be exact. You are allowed to use a calculator. You are not allowed to borrow or interchange calculators during the test.

1. What is the last digit in the number

$$9 \times 19 \times 29 \times 39 \times 49 \times 59 \times 69 \times 79 \times 89 \times 99?$$

2. Nora had a big bag of gold coins. She gave $\frac{1}{8}$ of them to her mother and then gave $\frac{1}{2}$ of what was left to her brother. She then gave $\frac{2}{7}$ of what was left to her dad and had 25 coins left. How many coins did she have originally?
3. The sum of five consecutive numbers is 1255. What is the largest number?
4. A hose takes 15 minutes to fill a swimming pool and the drain empties the pool in 20 minutes. How long will it take to fill the pool if the drain was left accidentally open?
5. Anna drove from her home to school at 40 miles per hour and was 10 minutes late. The next day she drove to school at 60 miles per hour and was 10 minutes early. How far is Anna school from her home?