Math Olympiads Beginner
Homework Week 1

Name _____

1. A ream of paper containing 500 sheets is 5 cm thick. Approximately how many sheets of this type of paper would there be in a stack 7.5 cm high?

2. What is the fraction halfway between 1/5 and 1/3 (on a number line)?

3. The ratio of boys to girls in Mr. Brown's math class is 2:3. If there are 30 students in the class, how many more girls than boys are in the class?

4. If your average score on your first six mathematics tests was 84 and your average score on your first seven mathematics tests was 85, then your score on the seventh test was:

5. If the length and width of a rectangle are each increased by 10% then the perimeter of a rectangle is increased by what percent?

6. In July 1861, 384 inches of rain fell in Cherrapunji, India. What was the average rainfall in **feet per week** during that month?

7. Which of the following numbers has the largest reciprocal?

    1/3   2/5   1   5   2003

8. The smallest product one could obtain by multiplying two numbers in the set (-7, -5, -1, 1, 3) is:

9. When finding the sum 1/2 + 1/3 + 1/4 + 1/5 + 1/6 + 1/7, the least common denominator use is:

10. The product 8 x 0.25 x 2 x 0.125 = _____

11. 1/10 + 2/20 + 3/30 = _____

12. 2.46 x 8.163 x (5.17 + 4.829) is closest to what number:

    100   200   300   400   500