

## 2016 Math League International Tournament



Math League Press, P.O. Box 17, Tenafly, New Jersey 07670-0017

# July, 2016 Relay Questions for Grades 3 & 4

Relay Round #1

1-1. What is the value of (2 + 4 + 6 + ... + 20) - (1 + 3 + 5 + ... + 19)? Let n = TNYWR. What is the remainder of  $3^n$  divided by 10? 1-2. 1-3. Let n = TNYWR. If 1 apple, 2 bananas, and 3 cherries cost n in total, 3 apples, 2 bananas, and 1 cherry cost \$7 in total, what is the total cost, in dollars, of 1 apple, 1 banana, and 1 cherry? 1-4. Let n = TNYWR. If the perimeter of a rectangle is 8n, what is the maximum possible value for its area? 1-5. Let n = TNYWR. For how many of the integers from 100 to 999 inclusive is the product of its digits equal to (n - 55)?



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#### Relay Round #2

