

## *Math Puzzle Book*

Congratulations! You have been hired as a contributing author for a math riddle book. Below is an example of the type of problem we want. Each riddle must be accompanied by an illustration and a solution similar to the example.

*CLUE 1      I am greater than of the number of eggs in a dozen added to the number of ounces in a pound and the number of wheels on two tricycles.*

*CLUE 2      I am less than the number of legs on two cows subtracted from the number of inches in four feet.*

*CLUE 3      I am a prime number*

*What number am I?*

*Solution:*

*Clue 1      the number is greater than 34 because  $12 + 16 + (2 \times 3) = 34$*

*Clue 2      the number is less than 40 because  $4 \times 12$  minus  $4 \times 2 = 40$*

*Clue        Since the number is between 34 and 40 and is prime that leaves only 37.*