

SET 1

OLYMPIAD 1

1A
3 MINUTES
79%

What number can replace the square to make the statement true?

$$5 \times 11 = \square + 12$$

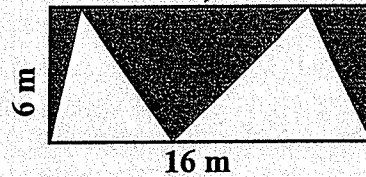
1B
6 MINUTES
16%

The sum of the 3-digit number AAA and the 2-digit number BB is the 4-digit number CD6E. A, B, C, D, and E are different digits. What 4-digit number does CD6E represent?

$$\begin{array}{r} A A A \\ + \quad B B \\ \hline C D 6 E \end{array}$$

1C
7 MINUTES
47%

What is the area, in square meters, of the shaded part of the rectangle?



1D
5 MINUTES
6%

In simplest form, the fraction $\frac{60}{N}$ represents a whole number. N is also a whole number. What is the total number of different values that N can be?

1E
5 MINUTES
24%

A bowl contains 100 pieces of colored candy: 48 green, 30 red, 12 yellow, and 10 blue. They are all wrapped in foil, so you do not know the color of any piece of candy. What is the least number of pieces you must take to be certain that you have at least 15 pieces of the same color?

Solutions start on page 132.