

SET 10 OLYMPIAD 4

A.
4
utes

What is the least counting number that can be added to 259 so that the result is a multiple of 25 ?

B.
5
utes

A fair die is thrown. What is the probability that the top face shows a factor of 6?

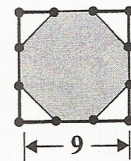
C.
5
utes

In this subtraction the squares contain the digits 3, 4, 5, and 8 in some order and the circles contain the digits 1, 3, 7, and 9 in some order. What four-digit number is represented by the squares?

$$\begin{array}{r} \square \square \square \square \\ - \quad \circ \circ \circ \circ \\ \hline 3 \ 6 \ 9 \ 9 \end{array}$$

D.
6
utes

Each side of the 9 cm by 9 cm square shown is divided into three equal parts. Find the area of the shaded region, in sq cm.



E.
7
utes

Colored beads are placed in the following order: 1 red, 1 green; then 2 red, 2 green; then 3 red, 3 green; and so on. In all, how many of the first 100 beads are red?