

Assignments for March 15

Children

1. puzzle



Figure 1

2. Encloser task

Enclose a 4×3 rectangle for a garden with additional rectangular blocks in such a way that the outer perimeter of the entire arrangement is maximized.



Figure 2.

As an example, Figure 2 shows an enclosure with an outer perimeter of 25 units. We seek to determine the maximum possible perimeter of such an enclosure.

Adults

1. puzzle



Figure 3

2. Enclosure problem

Enclose the following 2x2 rectangle (square) for a garden with additional rectangular blocks in such a way that the outer perimeter of entire arrangements is maximized (or minimized).



Figure 4

As an example, Figure 4 shows an enclosure with an outer perimeter 31 units. We seek to determine the maximum (minimum) possible perimeter of such an enclosure.