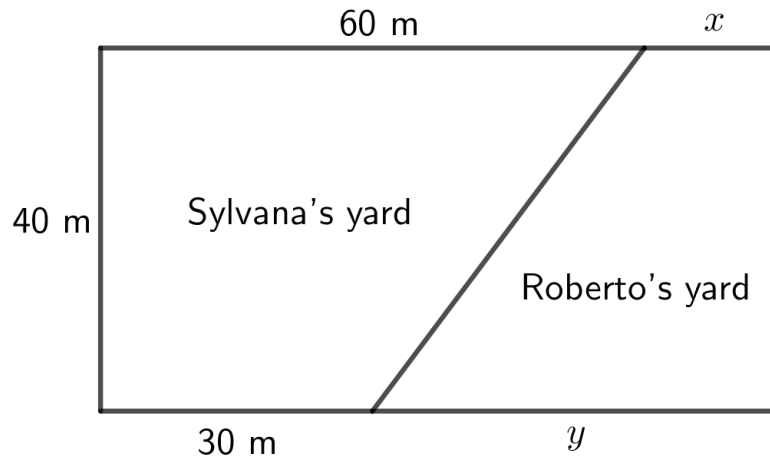# Problem of the Week
Problem B
Seeking Parts Unknown...

Sylvana and Roberto divide a 40 m by 75 m rectangular lot to form two yards, as shown in the diagram below.

The area of Roberto's yard is 40% of the total area of the two properties.

(a) What are the values of x and y, the missing dimensions of Roberto's yard?

(b) What is the area of each yard?

THEMES   ALGEBRA, GEOMETRY & MEASUREMENT