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HOW CAN THIS BE TRUE? – SOLUTION

In the last issue we presented the classic triangle puzzle, where even though the shapes in Figure 1 are identical to the shapes in Figure 2, when you move them around, you get the mystery hole...

The solution is shown in Figure 3. Lines AC and XZ are not straight

lines, but are actually angles ABC and XYZ. ABC is slightly concave and XYZ is slightly convex. If you overlay Figure 1 on top of Figure 2, you will see the "overlap gap" (shown in Figure 3) which has an area exactly equal to the area of the little square we call the "mystery hole".

T G

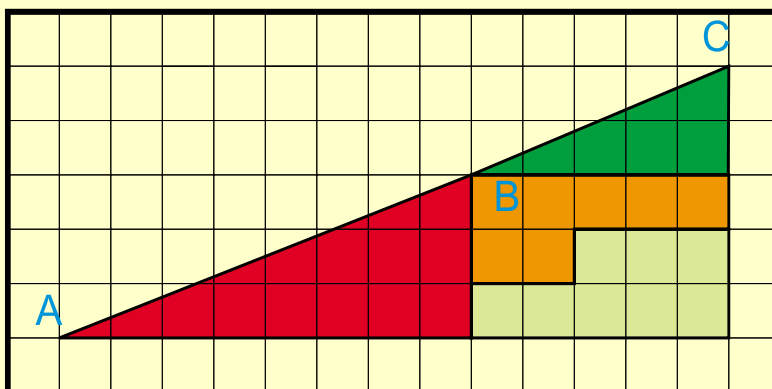


Figure 1.

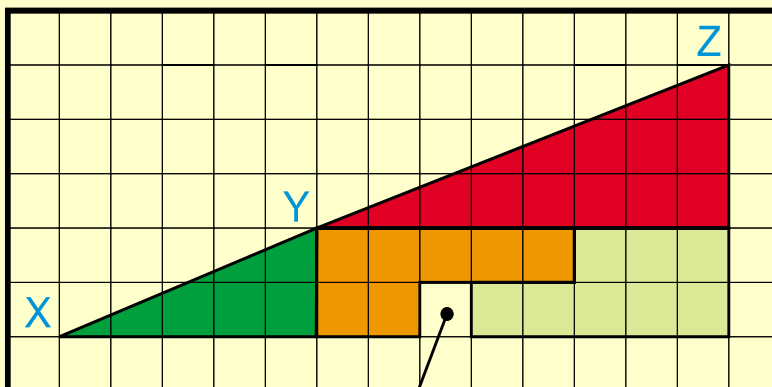


Figure 2.

"mystery hole"

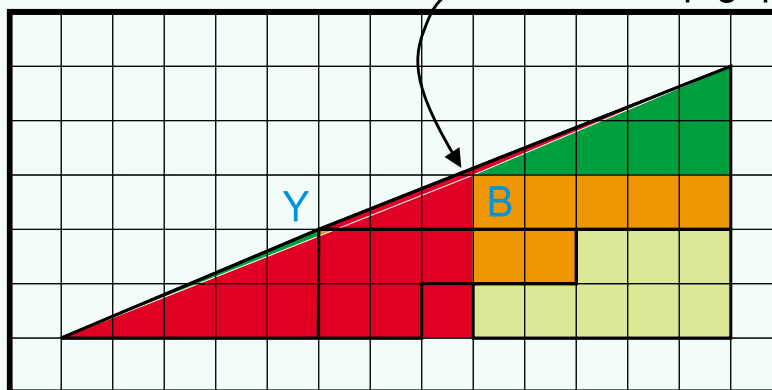


Figure 3.

"overlap gap"