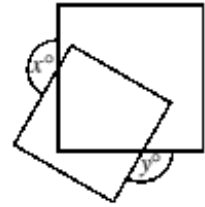




3. The diagram shows overlapping squares.
What is the value of $x + y$?
- A 270 B 300 C 330
D 360 E more information needed



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3. **A** The overlapping region of the two squares is bounded by a pentagon. Two of the interior angles of this pentagon are vertically opposite the given angles of size x° and y° , whilst the other three interior angles are all right angles. So $x + y + 3 \times 90 = 540$, that is $x + y = 270$.
(The diagram on the right also demonstrates that $x + y = 270$.)

