ALGEBRAIC IDENTITY - SQUARE OF A BINOMIAL

$$(a + b)^2 = a^2 + 2ab + b^2$$

... ACEI = $(a + b)^2$.........................(1)

... FGHI = a^2...................................(2)

...gle ABGH = ab............................(3)

...gle DEFG = ab............................(4)

... BCDG = b^2................................(5)

...4) and (5) we have,

... Area of FGHI + Area of ABGH + Area of DEFG + Area of BCDG

$a^2 + ab + ab + b^2$

= $a^2 + 2ab + b^2$.........................(6)

From (1) and (6) we have,

$$(a + b)^2 = a^2 + 2ab + b^2$$
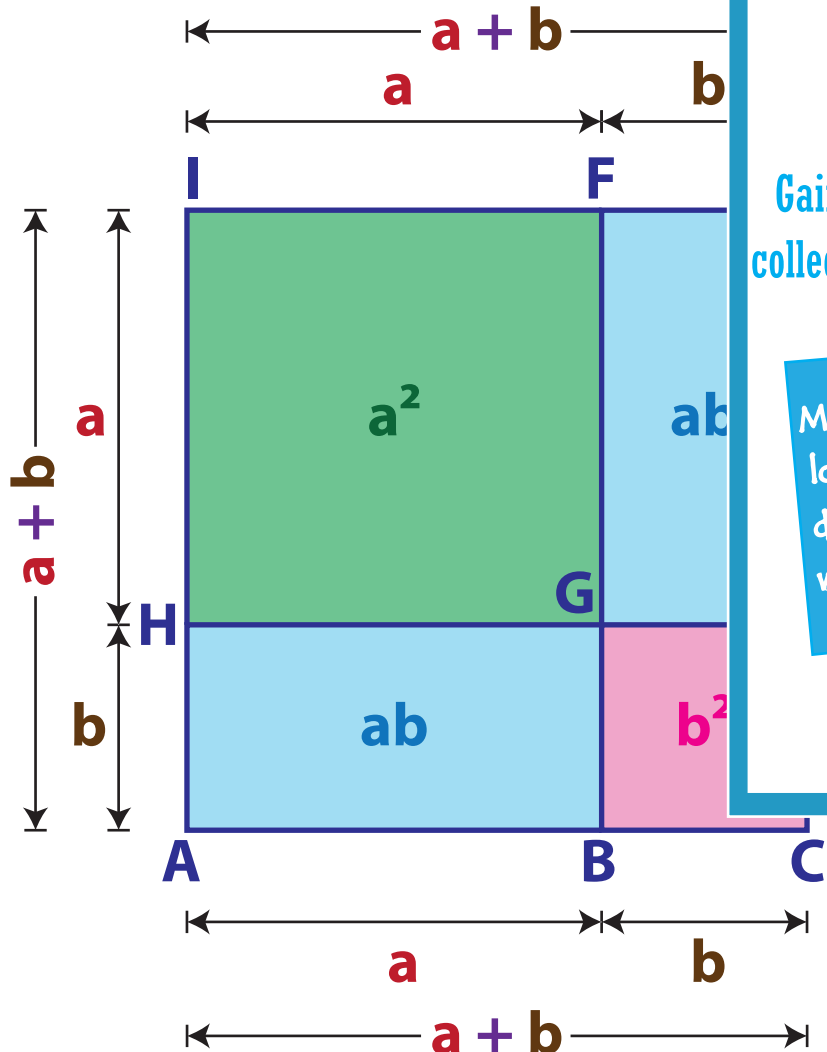
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