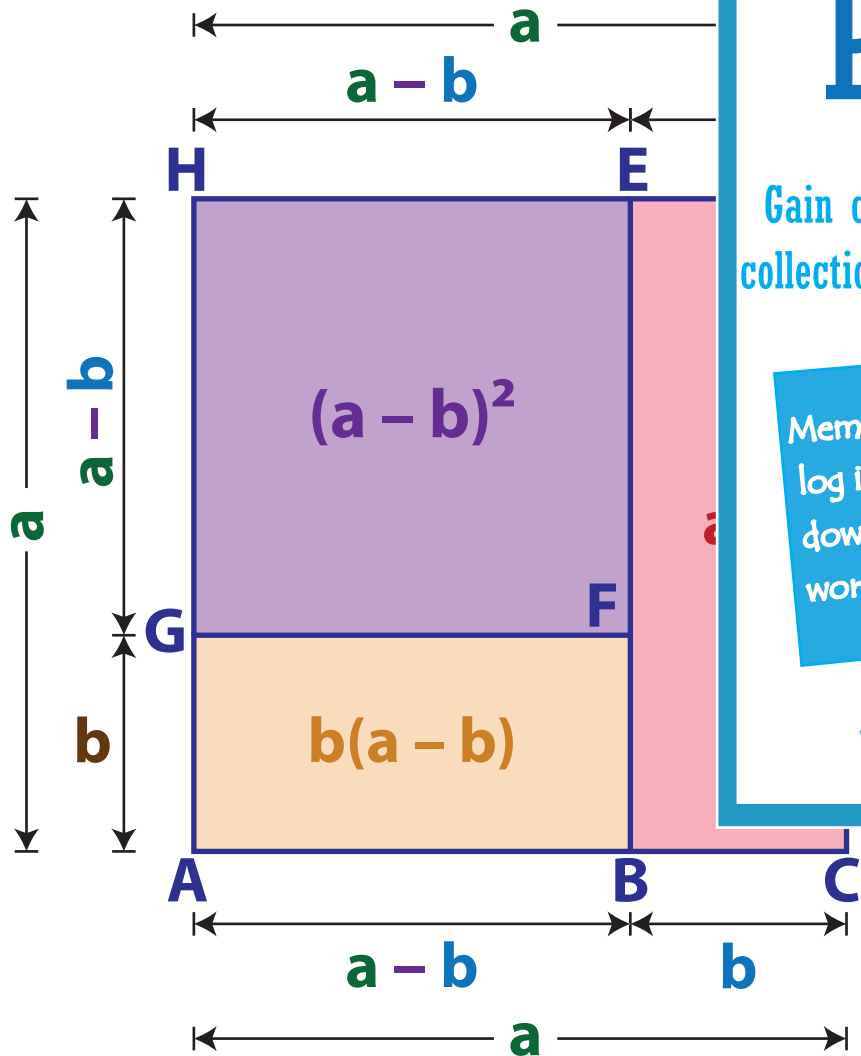


ALGEBRAIC IDENTITY - SQUARE OF A BINOMIAL

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



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Area of ACDH = a^2(1)

Area of EFGH = $(a - b)^2$(2)

Area of BCDE = ab(3)

Area of ABFG = $ab - b^2$(4)

From (2) and (4) we have,

Area of ACDH - Area of BCDE - Area of ABFG

= $a^2 - ab - ab + b^2$

= $a^2 - 2ab + b^2$(5)

From (2) and (5) we have,

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