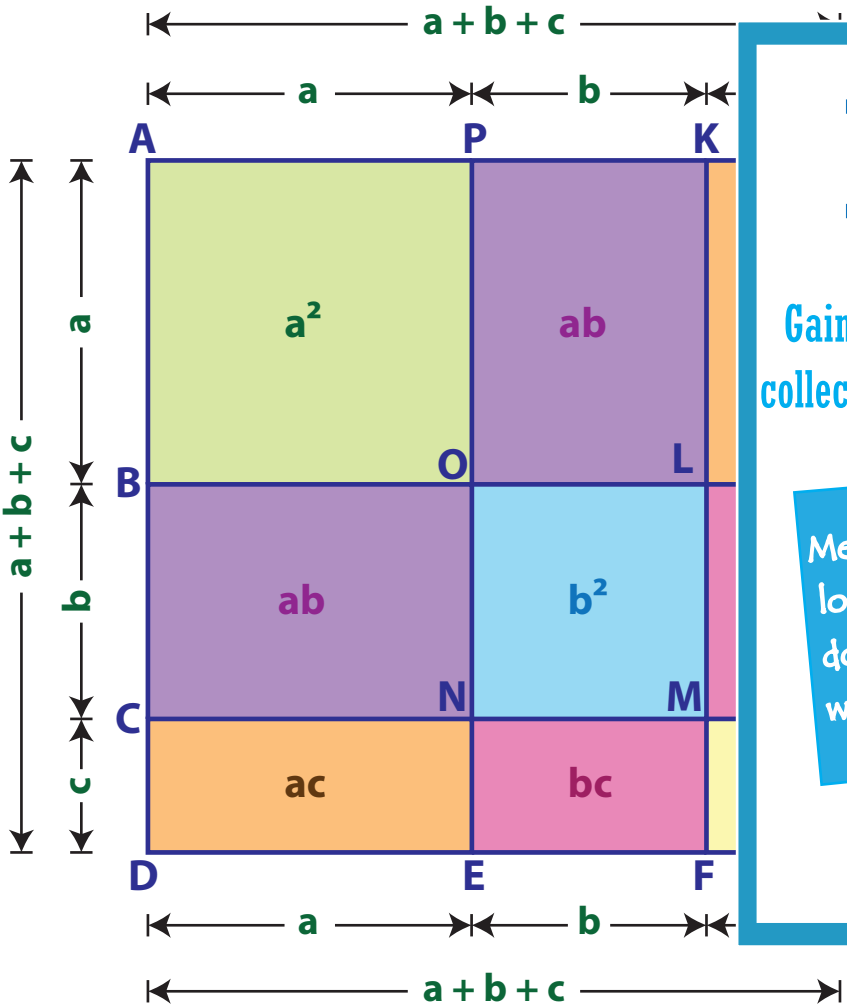


Name : _____

ALGEBRAIC IDENTITY - SQUARE OF A TRINOMIAL

Area of square ADGJ = $(a + b + c)^2$(1)



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$P = a^2$(2)

$O = b^2$(3)

$M = c^2$(4)

$OP =$ Area of rectangle BCNO = ab(5)

$FMN =$ Area of rectangle HILM = bc(6)

$CDEN =$ Area of rectangle IJKL = ac(7)

, (6) and (7) we have,

Sum of $(ABOP + LMNO + FGHM + KLOP + O + EFMN + HILM + CDEN + IJKL)$

$b^2 + c^2 + ab + ab + bc + bc + ac + ac$

$= a^2 + b^2 + c^2 + 2ab + 2bc + 2ac$(8)

From (1) and (8) we have,

$(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ac$

$(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ac$