

The diagram illustrates the binomial expansion of  $(a+b)^5$  using a sequence of rectangles. The top row shows 10 rectangles, representing the term  $a^5$ . The second row shows 9 rectangles, representing the term  $5a^4b$ . The third row shows 8 rectangles, representing the term  $10a^3b^2$ . The fourth row shows 7 rectangles, representing the term  $10a^2b^3$ . The fifth row shows 1 rectangle, representing the term  $b^5$ . This visual representation corresponds to the binomial coefficients in the expansion:  $1, 5, 10, 10, 1$ .

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