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Expanding double brackets worksheet with answers

Level 1-3 The process by which we remove brackets is called bracket extension (or multiplication). This is the opposite process of factoring. To expand $3(x-2)$, we need to multiply 3 by x and 2. Expand the next, $2(3a+5)$. 1 sign Green Arrow shows the first calculation $2 \times 3a$. 6a Red Arrow shows the second calculation 2×5 . This gives the final answer as $6a+10$. Expand the following, $-2y(2x-7y)$. 2 marks Green Arrow shows first calculation $-2y \times 2x = -4xy$. Red Arrow shows second calculation $-2y \times -7y = 14y^2$. This gives the final answer as $-4xy + 14y^2$. When expanding the double bracket, we have to multiply each of the things in the first bracket on each of the things in the second bracket. The FOIL method is a way of securing this every time. F - First, O - Outside, I - Internal, L - Last. The last use of the FOIL method will always give your answer in the same form, all you have to do is simply collect as terms. $x^2(x^2-8) - 3xy(x^2-8) - 3y(x^2-8) - 3x^3y - 6x^2y - 24xy$. We have to multiply everything inside the bracket by $9q$. So $9pq(2-pq^2-7p^4) - 9pq^2 - 9pq$ times $pq^2 - 9pq$ times $7p^4$ and $18pq - 9pq - 9p^2q^3 - 63p^5q$. We need to make sure we multiply everything in the right bracket. Using FOIL or another memorization method to make each multiplication, we get $(m-2n)(m-m-m-m/m/m/n) - 2n$ time $m-2$ n.m. $2n^2$ times m ($-2n$) times m ($-n$) $-m^2 - nm - 2nm - 2n^2$. Then, by collecting similar terms, we get the result of expansion to be m^2 and $nm - 2n^2$. First, we can write this as two brackets, $(2y^2+3x)(2y^2+3x)$ using FOIL and collecting similar terms, we get $(2y^2+3x)(2y^2+3x)$ times $3x \times 4y^4 \times 6xy^2 \times 2 - 4y^4 \times 12xy^2 \times 9x^2$. Try a revision card on this topic. Free Expanding double brackets of homework sheet (up axe in term square) with answers. The sheet includes practice, ASA issue with multiple choices, problem solving and feedback sheet. More Free Report Problems Related Topics: More Lessons for GCSE Mathematics Maths Sheets Examples, Solutions and Videos to Help GCSE Mathematics Students Learn How to Expand Algebraic Expression by Expanding Double Braces (Binomials). Expanding double braces When expanding double brackets, we must remember that in algebra, when two things are next to each other, it means that they multiply. $(x-5)(x-3)$ is the same as $(x-5) \times (x-3)$. So we have to multiply everything in the second bracket by everything in the first bracket. There are two different methods. In the first method, we draw arcs linking each term in the first bracket to each term in the second bracket. So x multiplied by x squared, x multiplied by $3x$, -5 multiplied by x , -5 multiplied by 3 is -15 . We end up with four arcs; it's really important to make sure we don't accidentally miss any. Some people like to remember this as FOIL: First, external, internal, last. In the second method, we split each bracket into a grid and then just multiply each bit together. For both methods, we then simplify the average time frame in $3x - 5x - 2x$, so the final answer is $x^2 - 2x - 15$. For triple brackets: start by extending the first two brackets and then multiply this answer into the third bracket. Square - Expanding double bracket introduction to widening brackets as needed for module 8 Group 9 course OCR Mathematics GCSE. Some examples of questions for you to try and worked examples and solutions. Show step-by-step solution Expanding double braces How to work (expand) double brackets in algebra. Multiplying the two brackets Try the free Mathway calculator and problem solving below to practice different math topics. Try these examples or deal with your own problems and check your answer with a step-by-step explanation. We welcome your feedback, comments and questions about this site or page. Please send your feedback or requests through our feedback page. Page.

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