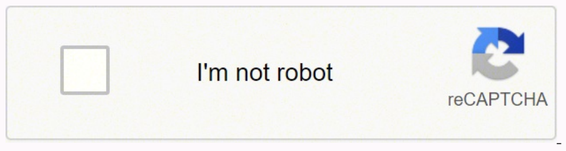

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Multiplying and dividing algebraic fractions questions and answers

arrow_back Back to Algebraic Fractions Whether you want a homework, some cover work, or a lovely bit of extra practise, this is the place for you. And best of all they all (well, most!) come with answers. Contents Mathster is a fantastic resource for creating online and paper-based assessments and homeworks. They have kindly allowed me to create 3 editable versions of each worksheet, complete with answers. Worksheet Name 1 2 3 Algebraic Fractions - Multiply and Divide 1 2 3 Algebraic Fractions - Add and Subtract 1 2 3 Algebraic Fractions - Factorise and Simplify 1 2 3 Algebraic Fractions Revision 1 2 3 Corbett Maths keyboard_arrow_up Back to Top Corbett Maths offers outstanding, original exam style questions on any topic, as well as videos, past papers and 5-a-day. It really is one of the very best websites around. Score: 0% Rank: Correct Answer: ← Previous 1 2 3 4 5 6 7 8 9 10 11 Next → Solve the following equation to find . Possible Answers: Correct answer: Explanation: The first step in solving this equation is to add the fractions, giving us: To solve for , we need to divide both sides by . Remember: When we divide a number by a fraction, we "switch" (find the reciprocal) of the fraction and mulitply it to the number. The right side of the equation cancels out leaving alone: Notice: Both the numerator and denominator are divisble by so we can simplify this further. Simplify . Possible Answers: Correct answer: Explanation: The problem can be made easier by first simplifying each fraction: and . This brings our new problem to . Now, the numerators are multiplied by each other then the denomenators are multiplied by each other: . Simplify . Possible Answers: Correct answer: Explanation: To solve, we must turn the division problem into a multiplication problem by "flipping" the second fraction (dividing by a fraction is the same as multiplying by its reciprocal): . Then, we multiply the numerators followed by the denomenators: . Lastly, the fraction must be simplified by a factor of 3: , which gives us our final answer. Multiply: Possible Answers: Correct answer: Explanation: To multiply fractions, just multiply the numerators, then the denominators, and then simplify. Multiply: Possible Answers: Correct answer: Explanation: To multiply fractions, multiply the numerators and denominators together, then simplify. Multiply: Possible Answers: Correct answer: Explanation: Multiply the numerators and denominators. Then, simplify. Multiply: Possible Answers: Correct answer: Explanation: Multiply the numerators and denominators, then simplify. Simplify: Possible Answers: Correct answer: Explanation: In order to divide fractions, you need to multiply the first fraction by the reciprocal of the second one. Now, multiply the numerators and denominators together, then simplify. Simplify: Possible Answers: Correct answer: Explanation: To divid fractions, you need to multiply the first fraction by the reciprocal of the second. Now, multiply the numerators and denominators together, then simplify. Simplify: Possible Answers: Correct answer: Explanation: To divide fractions, you need to multiply the first fraction by the reciprocal of the second. Now, multiply the numerators and denominators, then simplify. ← Previous 1 2 3 4 5 6 7 8 9 10 11 Next → Bryan Certified Tutor Virginia Commonwealth University, Bachelor of Science, Mathematics and Statistics. George Certified Tutor University of Vermont, Bachelor in Arts, Mathematics. Ryan Certified Tutor University of Pittsburgh-Pittsburgh Campus, Bachelor of Engineering, Industrial Engineering. If you've found an issue with this question, please let us know. With the help of the community we can continue to improve our educational resources. 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Send your complaint to our designated agent at: Charles Cohn Varsity Tutors LLC 101 S. Hanley Rd, Suite 300 St. Louis, MO 63105 Or fill out the form below: Author: Jess Prior This type of activity is known as Practice. Please read the guidance notes here, where you will find useful information for running these types of activities with your students. 1. Example-Problem Pair 2. Intelligent Practice 3. Answers 4. Downloadable version 5. Alternative versions feel free to create and share an alternate version that worked well for your class following the guidance here Score: 0% Rank: Correct Answer: S k i l l i n A L G E B R A Table of Contents | Home 22 The rule Reducing Section 2 Complex fractions -- Division TO MULTIPLY FRACTIONS, multiply the numerators and multiply the denominators, as in arithmetic. Problem 1. Multiply. To see the answer, pass your mouse over the colored area. To cover the answer again, click "Refresh" ("Reload").Do the problem yourself first! a) $2x \cdot 5x = 10x2$ b) $3ab\ 4c \cdot 4a2b\ 5d = 3a^3b2\ 5cd$ The 4's cancel. c) $3x\ x + 1 \cdot 6x2\ x - 1 = 18x^3\ x2 - 1$ The Difference of Two Squares d) $x - 3x + 1 \cdot x - 2x + 1 = x2 - 5x + 6x2 + 2x + 1$ If a multiplication looks like this: $a \cdot bc$ or $bc \cdot a$, multiply only the numerator. Problem 2. Multiply. a) $x \cdot 2x\ 3 = 2x2\ 3$ b) $3x2\ 4 \cdot 7x3 = 21x5\ 4$ c) $(x + 3) \cdot x - 3x + 6 = x2 - 9\ x + 6$ d) $x2 - 2x + 5\ 6x2 - 4x + 1 \cdot 2x3 = 6x2 - 4x + 1$ No canceling! Reducing If any numerator has a divisor in common with any denominator, they may be canceled. The a's cancel. For if we took the trouble to multiply and write then it's obvious that we could divide both the numerator and denominator by a. It is more skillful, then, to reduce before multiplying. Problem 3. Multiply. Reduce first. a) $abcd \cdot ed\ fg \cdot hcfake = bhgk$ b) $(x - 2)(x + 2)\ 8x \cdot 2x\ (x + 2)(x - 1) = x - 2\ 4(x - 1)$ c) $x^3\ (x + 2)(x + 3) \cdot x + 3\ x7 = 1\ (x + 2)x4$ d) $x(x + 1)\ 6 \cdot 2\ x2 - 1 = x(x + 1)\ 6 \cdot 2\ (x + 1)(x - 1) = x\ 3(x - 1)$ e) $aq \cdot bcq = ab\ c$ f) $10 \cdot x + 2\ 2 = 5(x + 2) = 5x + 10$ The a's cancel as −1, which on multiplication with 1 makes the fraction itself negative (Lesson 4). Example 1. Multiply $x2 - 4x - 5x2 - x - 6 \cdot x2 - 5x + 6x2 - 6x + 5 = (x + 1)(x - 5)(x + 2)(x - 3) \cdot (x - 3)(x - 2)(x - 1)(x - 5) = x + 1x + 2 \cdot x - 2x - 1 = x2 - x - 2x2 + x - 2$ Problem 4. Multiply. a) $x2\ x2 + x - 12 \cdot x2 - 9\ 2x6 = x2\ (x + 4)(x - 3) \cdot (x - 3)(x + 3)\ 2x6 = 1\ x + 4 \cdot x + 3\ 2x4 = x + 3\ 2x5 + 8x4$ b) $x2 - 2x + 1x2 - x - 12 \cdot x2 + x - 6x2 - 6x + 5 = (x - 1)2(x - 4)(x + 3) \cdot (x + 3)(x - 2)(x - 1)(x - 5) = x - 1x - 4 \cdot x - 2x - 5 = x2 - 3x + 2x2 - 9x + 20$ c) $x2 + 3x - 10x2 + 4x - 12 \cdot x2 + 5x - 6x2 + 4x - 5 = (x + 5)(x - 2)(x + 6)(x - 2) \cdot (x - 1)(x + 6)(x - 1)(x + 5) = 1$ d) $x^3\ x2 - 1 \cdot x2 + x - 2\ x4 \cdot x2\ x2 + 4x + 4 = x^3\ (x + 1)(x - 1) \cdot (x - 1)(x + 2)\ x4 \cdot x2(x + 2)2 = x + 1 \cdot 1\ x + 2 = x\ x2 + 3x + 2$ Section 2: Complex fractions -- Division Table of Contents | Home Please make a donation to keep TheMathPage online.Even $1 will help. Questions or comments? E-mail:

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