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WebPre-Calculus 11: Rational Equations Word Problems The speed of a plane is seven times as fast as the speed of a car. The car takes 3 hours longer than the plane to travel 315 kilometers. Find the speed of the car and the speed of the plane The speed of the car is 90 k/hr and the speed of the plane is 630 k/hr.

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Webdifferent ways. So the answers we get, even if they look different, must be the same. So  $a^{-4} = \frac{1}{a^4}$  So a negative sign in the index can be thought of as meaning '1 over'. Key Point  $a^{-1} = \frac{1}{a}$  and more generally  $a^{-m} = \frac{1}{a^m}$  www.mathcentre.ac.uk 5 c mathcentre 2009

**Worksheet 7.1: Radicals and Rational Exponents**[uic.eduhttp://homepages.math.uic.edu/~ksartipi/Teaching/SEW\\_2018/...](http://homepages.math.uic.edu/~ksartipi/Teaching/SEW_2018/...) · PDF file

WebWorksheet 7.1: Radicals and Rational Exponents. Each of the following is written in radical notation. Rewrite each with a rational exponent. Each of the following is written with a rational exponent. Rewrite each in radical notation. Simplify each of the following.

1 Rational Exponents and Radicals - University of Minnesota[umn.eduhttps://personal.morris.umn.edu/.../Unit10-Rational-Exponents...](https://personal.morris.umn.edu/.../Unit10-Rational-Exponents...) · PDF file

Web $2x + 1$ . (common factor) example Common Factor  $x^3=2$  from the expression  $x^9=2$   $x^3=2$ . solution: I like to do common factoring with radicals by using the rules of exponents.  $x^9=2$   $x^3=2$  =  $x^3=2+6=2$   $x^3=2$ . (rewrite exponents with a power of  $3/2$  in each) =  $x^3=2x^6=2$   $x^3=2$ . (rules of exponents) =  $x^3=2x^6=2$ .

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WebSimplifying Rational Exponents Date\_\_\_\_\_ Period\_\_\_\_ Simplify. 1)  $(n^4)^3$  2)  $(27p^6)^{1/3}$  3)  $(25b^6)^{-1.5}$  4)  $(64m^4)^{3/2}$  5)  $(a^8)^{3/2}$  6)  $(9r^4)^{0.5}$  7)  $(81x^{12})^{1.25}$  8)  $(216r^9)^{1/3}$  Simplify. Your answer should contain only positive exponents with no fractional exponents in the denominator. 9)  $2m^2 \cdot 4m^3$  2)  $4m^{-2}$  10)  $3b^1 \cdot 2 \cdot b^4$  3)  $11) (p^3)^{...}$

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WebRational Exponents Word Problem Practice Answers LAWS OF EXPONENTS To multiply powers of the same base add their exponents Thus  $2^2$  times  $2^3$  =  $2^5$  32 PROOF  $2^2 \cdot 2^4 = 2^6$   $3^8 \cdot 2^5$

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Webfactors have exponents other than 1, the LCD needs to have the highest exponent of that factor. In this problem the LCD =  $(x+1)(x-3)(x-4)$  It would be wrong to write  $(x-3)^2$  in the LCD even though it occurs in both denominators. The only time I would have an  $(x-3)^2$  as part of the LCD is if there was an  $(x-3)^2$  in one of the denominators.

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Web8.6 Practice - Rational Exponents Write each expression in radical form. 1)  $m^{3/5}$  3)  $(7x)^{3/2}$  2)  $(10r)^{-3/4}$  4)  $(6b)^{-4/3}$  Write each expression in exponential form. 5)  $1/(6x\sqrt{3})$  7)  $1/(4n\sqrt{7})$  6)  $v\sqrt{8}$  5a)  $\sqrt{5a}$  Evaluate. 9)  $8^{2/3}$  11)  $4^{3/2}$  10)  $16^{1/4}$  12)  $100^{-3/2}$  Simplify. Your answer should contain only positive exponents. 13)  $yx^1$  ...

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Web1 Label all unlabeled exponents "1" 2 Take the reciprocal of the fraction and make the outside exponent positive. 3 Get rid of any inside parentheses. 4 Reduce any fractional coefficients. 5 Move all negatives either up or down. Make the exponents positive. 6 Combine all like bases. 7 Distribute the power to all exponents.

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WebN-RN.A.1 Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents. For example, we define  $5^{1/3}$  to be the cube root of 5 because we want  $(5^{1/3})^3 = 5(1/3)^3$  to hold, so  $(5^{1/3})^3$  must equal 5.

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WebQUOTIENT RULE: To divide when two bases are the same, write the base and SUBTRACT the exponents. Examples:  $A \cdot B^{-3} \cdot C^{-4} = 3$ . ZERO EXPONENT RULE: Any base (except 0) raised to the zero power is equal to one.  $a^0 = 1$ . Examples:  $A \cdot B^0 \cdot C^{-1} = C^{-1}$ . 4. POWER RULE: To raise a power to another power, write the base and MULTIPLY the ...

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WebThe use of exponents as a means of expressing factors in a compact form was introduced in Mathematics 8, as students explored perfect squares and worked with the Pythagorean theorem. This previous exposure was limited to square numbers. In this unit, powers with whole number exponents will be developed through repeated multiplication.

**Section 3.6: Rational Exponents - cbcmd.educbcmd.edu**[https://oer.cbcmd.edu/math/math083/Math083\\_Section3-6\\_Te...](https://oer.cbcmd.edu/math/math083/Math083_Section3-6_Te...) · PDF file

WebCHAPTER 3 Section 3.6: Rational Exponents Page 168 ANSWERS to Practice Exercises Section 3.6: Rational Exponents 1) 5 m 3 2) 43 1 10r 3) 7x 4) 3 1 6b 5) x6 32 7) 6) 1 1 v2 (5 ) 7 n 4 8) a 2 9) 4 10) 2 11) 8 12) 1 1000 13) 1 3 14) 8 15) 1 27 16) 125 17) 45 xy 3 2 18) 1 3 4 v 19) 7 11 22 1 ab 20) 1 21) 1 y 2 22) 2 v2 u The Answers to Practice ...

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WebPre-AP Algebra 2 Name: \_\_\_\_\_ 9-1 Pair Work Practice with Rational Exponents 1) Rewrite each radical using rational exponent notation. a.  $3\sqrt[5]{7}$  b.  $11x$  c.  $4\sqrt[8]{2}$  Rewrite each power using radical notation. a.  $431/5$  b.  $8\sqrt[3]{4}$  c.  $x\sqrt[5]{2}$  3) Find the exact, simplified value of each expression without a calculator.If you are stuck, try

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WebApplication Problems with Rational Expressions The applications will involve situations with work rate, variations, water current and speed of wind. Work rate Work rate problems usually involve two people that are trying to help each other finish a single job. Fran can clean the garage in 3 hours, but it takes Angie 4 hours to do the same job.

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