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Multiplying rational numbers worksheet answer key

This Algebra 1 – Basics Worksheet will create problems for the student to multiply and split rational numbers. Click here for More Algebra 1 - Basic Worksheets Practice the questions given in the worksheet about multiplying rational number. We know, for any two rational numbers a/b and c/d , we have $a/b \times c/d = a \times c/b \times d$. 1. Multiply each of the following rational numbers: (i) $7/11$ by $5/4$ (ii) $5/7$ by $(-3/4)$ (iii) $(-2)/9$ by $5/11$ (iv) $-3/17$ at $-5/-42$. Find the product of each of the following:(i) $3/5 \times (-7)/8$ (ii) $(-9)/2 \times 5/4$ (iii) $(-6)/11 \times 5/5/5$ (-iv) $(-2)/3 \times 6/7$ (v) $(-12)/5 \times 10/-3$ (vi) $25/-9 \times 3/-10$ (vii) $5/-18 \times -9/20$ (viii) $(-13)/15 \times (-25)/26$ (ix) $16/-21 \times -7/6 \times 24$ (xi) $7/24 \times (-48)$ (xii) $(-13)/5 \times (-10)$ 3. Find the mutuality of: (i) $13/25$ (ii) $(-17)/12$ (iii) $(-7)/24$ (iv) 18 (v) -16 4. Find the value of: (i) $(5/8)^{-1}$ (ii) $(-4/9)^{-1}$ (iii) $(-7)^{-1}$ (iv) $(1/-3)^{-1}$ 15. Fill in the blanks: (i) The product of a rational number and its mutual is ____ (ii) Zero has ____ reciprocal. (iii) The numbers ____ and ____ are their own mutual. (iv) Zero is ____ the mutual of any number. (v) The mutual of a mutual, where a person is $\neq 0$, is _____. (vi) The mutual of $1/a$, where $a \neq 0$, is _____. (vii) The mutual of a positive rational number is _____. (viii) The mutual of a negative rational number is _____. 6. Simplify each of the following and print out the result as a rational number: (i) $-16/21 \times 14/5$ (ii) $7/6 \times -3/28$ (iii) $-19/19/5$ (ii) $7/6 \times -19/19/5$ (ii) $7/6 \times -3/28$ (iii) $-19/19/5$ 36×16 (iv) $-13/9 \times 27/-26$ Answers for the worksheet on multiplication of rational number are given below to check the exact responses of the above multiplication. Answers:1. (i) $35/44$ (ii) $-15/28$ (iii) $-10/99$ (iv) $-15/682$. (i) $-21/40$ (ii) $-45/8$ (iii) $10/11$ (iv) $-4/7$ (v) $8/5$ (vii) $1/8$ (viii) $5/6$ (ix) $-32/15$ (x) -28 (xi) -14 (xii) -14 (xii) (i) $25/13$ (ii) $12/-17$ (iii) $24/-7$ (iv) $1/18$ (v) $1/-164$. (i) $8/5$ (ii) $-9/4$ (iii) $-1/7$ (iv) -35 . (i) 1 (ii) No (iii) 1 , -1 (iv) Not (v) $1/a$ (vi) a (vii) $Positive$ (viii) $Negative$ 6. (i) $-32/15$ (ii) $-1/8$ (iii) $-76/9$ (iv) $3/2$ • Rational Numbers - Worksheet Worksheet on Rational NumbersWorksheet on Equivalent Rational NumbersWorksheet on Lowest Form of a Rational NumberWorksheet on standard form of a rational NumberWorksheet on Equality of Rational NumbersWorksheet on representation of rational number on a Number LineWorksheet about adding rational numbersWorksheet to properties of addition of rational numbersWorksheet on pulling down rational numbersWorksheet on adding and deducting rational numberWorksheet on rational expressions involved Sum and Difference Worksheet on Multiplication of Rational NumberWorksheet on Properties of Multiplication Rational NumbersWorksheet on Properties of Section Rational NumbersWorksheet on Rational numbers between two rational numbers Worksheet on Word Problems on Rational NumbersWorksheet on Operations on Rational Expressions Objective Questions about Rational Numbers Maths Homework 8th Grade Maths Practice Of Worksheet on Multiplication of Rational Number to HOME SHEET Did Not Find What You Were Looking for? Or want to know more information about Mathematics Only Mathematics. Problem 1 : A student can eat $1/8$ of a pizza. If there are 40 students in David's class, how many pizzas does David need? Problem 2 : There are 450 students in school. If $4/9$ th of the students are boys, find the number of girls in school. Problem 3 : The science teacher fills her new fish aquarium. The aquarium holds 40 litres. If she fills the aquarium $4/5$ of the way full, how many litres will she need? Problem 4 : The science teacher fills her new fish aquarium. The aquarium holds 40 litres. If she fills the aquarium $4/5$ of the way full, how many litres will she need? Detailed Answer Key Problem 1 : A student can eat $1/8$ of a pizza. If there are 40 students in David's class, how many pizzas does David need? Solution :To find how many pizzas David needs, we need to multiply 40 and $1/8$. Step 1 : Multiply 40 at $1/840 \times 1/8$ Step 2 : Simplify $5 \times 1/1$ Step 3 : Multiply $5 \times 1/1 = 5$ So, David needs 5 pizzas. Problem 2 : There are 450 students in school. If $4/9$ th of the students are boys, find the number of girls in school. Solution :If $4/9$ of the students are boys, then $5/9$ th of the students are girls. Because $9 - 4 = 5$. To find most girls, we need to multiply 450 by $5/9$. Step 1 : Multiply 450 by $5/9450 \times 5/9$ Step 2 : Simplify $50 \times 5/1$ Step 3 : Multiply $50 \times 5/1 = 250$ So, there are 250 girls in school. Problem 3 : The science teacher fills her new fish aquarium. The aquarium holds 40 litres. If she fills the aquarium $4/5$ of the way full, how many litres will she need? Solution :If $4/5$ of the aquarium is filled, $1/5$ th of the aquarium must be filled to fill it. Because $5 - 4 = 1$. To number of liters, we need to multiply 40 by $1/5$. Step 1 : Multiply 40 by $1/540 \times 1/5$ Step 2 : Simplify $8 \times 1/1 = 8$ So, the science teacher needs 8 litres to fill the aquarium. Problem 4 : A baker must make 8 groups of cookies for a party. If each batch needs $2 \frac{3}{4}$ cups of flour, how many cups will he need? Solution : To find the number of cups needed, we need to multiply 8 by $2 \frac{3}{4}$. Step 1 : Multiply 8 by $2 \frac{3}{48} \times 2 \frac{3}{4}$ Step 2 : Simplify $8 \times 11/4 = 2 \times 11/1$ Step 3 : Multiply $2 \times 11/1 = 22$ So, the baker needs 22 cups of flour to make 8 groups of biscuits. Aside from the things given above, if you need any other things in math, please use our Google custom search here. If have any feedback on our maths content, please post us : v4formath@gmail.com we always appreciate your feedback. You can also visit the following web pages on different things in maths. 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C.M method to solve time and work problemsTranslating the word problems into algebraic expressionsRemainder when 2 force 256 is divided by 17Remainder when 17 power 23 is divided by 1 6Sum of all three digit numbers divided by 6Sum of all three digit numbers divided by 7Sum of all three digit numbers divided by 8Sum of all three digit numbers formed with 1, 3, 4Sum of all three digit numbers formed with non-zero digitsSum of all three four digit numbers formed using 0, 1, 2, 3Sum of all three digit numbers formed using 1, 2, 5, 6 copyrighted onlinemath4all.com SB!! More lessons for Grade 6 Maths Worksheets Examples, solutions, videos and worksheets to help Grade 6 students learn how to multiply and divide rational numbers. How to multiply rational numbers? To multiply rational numbers, we multiply the top numbers (numerators), multiply the lower numbers (denominators) and simplify the answer when needed. 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