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Complex fraction equations worksheet

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New concepts are explained in simple language, and examples are easy to follow. Word problems relate algebra to family situations, helping students understand abstract concepts. Students develop understanding by solving equations and inequalities intuitively before formal solutions are introduced. Students begin the study of algebra in Books 1-4 using only integers. Books 5-7 introduce numbers and rational expressions. Books 8-10 extend coverage to the real number system. => Learn more By Simplifying Complex Fractions – Practice issues Move your mouse over the Answer to reveal the answer or click the Complete Solution link to reveal all the steps needed to simplify complex fractions. Problem 1 : Maya wants to split a 3/4 pound box of mixture of in small bags. Each bag will have 1/12 pound track mix. How many maya trail mixing bags can you fill? Solution: Amount of trail mix each bag contains contains 1/12 poundGiven : Each bag will contain 1/12 pound of track mixture. Then the number of bags required for 3/4 kilos of track mixture is = (3/4) / (1/12)In the complex fraction above, change the division as multiplication and take reciprocal fraction in denominator. = 3/4 - 12/1Simplify.= (3 - 12) / (4 - 1)=(3 - 3) / (1) = 9 / 1 = 9So, Maya can fill 3/4 kilos of trail mixture in 9 bags. Problem 2 : Cooper's bird feeder contains 9/10 of a cup of alpáño. Cooper is filling the bird feeder with a spoon containing 3/10 of a glass. How many spoonfuls of bird cooper will put in the feeder? Solution : Amount of seeds that the poultry feeder holds = 9/10 of a given cup : Cooper is filling the poultry feeder with a spoon containing 3/10 of a cup. Then the number of spoons of alpine will put Cooper in the feeder is= (9/10) / (3/10)In the complex fraction above, change the division as multiplication and take reciprocal fraction in the denominator. = 9/10 - 10/3Simplify.= (9 - 10) / (10 - 3)=(3 - 1) / (1 - 1)= 3 / 1 = 3So, Cooper will put 3 spoons of alpine in the feeder. Problem 3 : A cookie factory uses 1/6 of a bag of flour in each batch of biscuits. The factory used a single 2 of a sack of flour yesterday. How many lots of cookies did the factory make? Solution : Flour used in each batch of biscuits = 1/6 bag Given : The factory used 1/2 of a bag of flour yesterday. Then the number of lots of biscuits that the factory made yesterday : = (1/2) / (1/6)In the complex fraction above, change the division as multiplication and take reciprocal fraction in the denominator. = 1/2 - 6/1Simplify.= (1 - 6) / (2 - 1)=(1 - 3) / (1 - 1)= 3 / 1 = 3So, 3 lots of biscuits that the factory made yesterday. 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