

## Solving Transportation Problem With Mixed Constraints

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### Solving Transportation Problem with Mixed Constraints

Abstract. In this paper we provide a heuristic algorithm for solving transportation problems with mixed constraints and extend the algorithm to find a more-for-less (MFL) solution, if one exists. Though many transportation problems in real life have mixed constraints, these problems are not addressed in the literature because of the rigor required to solve these problems optimally.

### Solving transportation problems with mixed constraints ...

Summary. Variants of the standard transportation problem in which availability or requirement constraints are specified as inequalities can be solved by means of related standard transportation problems. In this paper we show that to each transportation problem with mixed constraints a standard transportation problem with two additional constraints can be related.

### Solving the transportation problem with mixed constraints ...

A New Approach for Solving Transportation Problems with Mixed Constraints 57 Step 5. Identify negative Modi indices and related columns and rows. If none exist, this is an optimal solution to TP with mixed constraints (no MFL paradox is present). STOP. Step 6. Form a new TP with mixed constraints by changing the sign of columns

### A New Approach for Solving Transportation Problems with ...

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(2011). Solving transshipment problems with mixed constraints. International Journal of Management Science and Engineering Management: Vol. 6, No. 4, pp. 292-297.

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### Solving Transportation Problems With Mixed Constraints

From Table 2.4, the solution of the given transportation problem with mixed constraints is: and all other for a flow of 125 units with the minimum transportation cost as 605 unit, which is equal to our previous result. By the computer programming of our proposed method, we get the following result:

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### Solving Transportation Problems With Mixed Constraints

In 2001, Adalkha and Kowalski [13] developed a heuristic algorithm for solving transportation problem with mixed constraints, which was based on the theory of shadow price.

### Solving transportation problems with mixed constraints ...

This restriction results in a model that is a mixed-integer linear program. Use Optimization Toolbox™ to interactively define the optimization problem, optimization variables, and constraints. Review the problem after each addition using the problem, variable, and constraint display functions. Solve the problem and display the results.

### Mathematical Modeling with Optimization, Part 3: Problem ...

Solution : Total no. of miles she walked is. =  $2 \frac{1}{3} + 3 \frac{2}{5}$ . In the above mixed fractions, we have the denominators 3 and 5. LCM of (3, 5) = 15. To simplify the above expression, we have to make the denominators of both the mixed fractions to be 15. Then, we have.  $2 \frac{1}{3} + 3 \frac{2}{5} = 2 \frac{5}{15} + 3 \frac{6}{15}$ . By regrouping, we have.

### Word Problems on Mixed Fractions - onlinemath4all

Pandian have developed a new method namely, slice-sum method for solving an optimal solution for fully rough interval integer transportation problems. More recently, Pandian a new method namely,...

### (PDF) Fully rough integer interval transportation problems

4.2.1. Solution of Example 2 and Its Explanation. From the Transportation Table 4, it is seen that total supply and total demand are equal.Hence the given transportation problem is a balanced one. Now it is found all the cell values are even number in the Transportation Table 4.So according to the Step-3 of proposed algorithm, these cells values are to be continuously divided by 2 until obtain ...

### A New Approach to Solve Transportation Problems

Analysis: To solve this problem, we will multiply these mixed numbers. But first we must convert each mixed number to an improper fraction. solve-example3-problem.gif Solution: solve-example3-solution.gif Answer: The area of the classroom is 9 and  $\frac{7}{20}$  square meters. Chocolate BarExample 4: A chocolate bar is  $\frac{3}{4}$  of an inch long.