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programming, in which the objective function and the constraints are linear. Integer programming is NP-complete. In particular, the special case of 0-1 integer linear programming, in which unknowns are binary, and only the restrictions must be satisfied, is one of Karp's 21 NP-complete problems

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116 CHAPTER 3  
Applications of Linear  
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The unit profits are  
\$23, \$34, and \$45, and  
the amount of plastic  
required to produce  
each is 2 pounds, 3  
pounds, and 4 pounds,  
respectively. In  
addition, management  
does not want any  
model to exceed 40%  
of total production (X 1

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$X^2 \times 3$ ).

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several specially  
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sets, it is possible to  
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One of my favorite applications of integer-linear programming is combinatorial auctions. Given a set of package bids, the auctioneer must choose a set of winning bids which maximize revenue (or value) while satisfying the constraints on the number of items at auction.

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## **What are some modern applications of integer programming ...**

Integer programming:  
applications, modeling,  
branch-and-bound,  
polyhedral theory,  
valid inequalities,  
advanced techniques.

Prerequisites: Linear  
algebra; probability;  
mathematical maturity  
(including ability to  
write a formal proof);  
basic computer science



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## **CPS 590.01 - Linear and Integer Programming**

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