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## Linear Programming Worksheets

1) An office manager is purchasing file cabinets and wants to maximize storage space. The office has 40 sq. ft. of floor space for the cabinets and \$600 in the budget to purchase them. Cabinet A requires 5 sq. ft. of floor space, has a storage capacity of 12 cubic ft., and costs \$75. Cabinet B requires 6 sq. ft. of floor space, has a storage capacity of 18 cubic ft. and costs \$75. How many of each cabinet should the office manager buy?

2) A ski company makes two types of skis and has a fabrication and a finishing department. A pair of downhill skis requires 6 hours to fabricate and 1 hour to finish. A pair of cross-country skis requires 4 hours to fabricate and 1 hour to finish. The fabricating department has 108 hours of labor available per day. The finishing department has 24 hours of labor available per day. The company makes a profit of \$40 on each pair of downhill skis and \$30 on each pair of cross-country skis. How many of each type should the manufacturer produce to maximize his profit? What is the max profit?

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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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