

## Practice Problems: Module B, Linear Programming

### Problem 1:

Chad's Pottery Barn has enough clay to make 24 small vases or 6 large vases. He has only enough of a special glazing compound to glaze 16 of the small vases or 8 of the large vases. Let  $X_1$  = the number of small vases and  $X_2$  = the number of large vases.

The smaller vases sell for \$3 each, and the larger vases would bring \$9 each.

- (a) Formulate the problem
- (b) Solve the problem graphically

### Problem 2:

A fabric firm has received an order for cloth specified to contain at least 45 pounds of cotton and 25 pounds of silk. The cloth can be woven out of any suitable mix of two yarns A and B. They contain the proportions of cotton and silk (by weight) as shown in the following table:

	Cotton	Silk
A	30%	50%
B	60%	10%

Material A costs \$3 per pound, and B costs \$2 per pound. What quantities (pounds) of A and B yarns should be used to minimize the cost of this order?

# Linear Programming Practice Problems With Answers

**Clemens Wendtner**



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