

Card #1

Whizzo Chocolate Company in Chicago, IL, makes a wide variety of exceptionally high quality confections. Each one of their products can be classified into one of 5 groups. (Weights include all necessary packaging for shipping.)

- 1) 12-piece assortments (1.5 lbs, \$14.99), some of which require refrigerated shipping and some of which do not.
- 2) 20-piece assortments (2.0 lbs, \$24.99), some of which require refrigerated shipping and some of which do not.
- 3) a small chocolate-covered fruit basket (12 lb, \$39.99), which requires refrigerated shipping
- 4) a large chocolate-covered fruit basket (30 lb, \$59.99), which requires refrigerated shipping
- 5) an all-chocolate chessboard with white & dark chocolate chessmen (25 lb, \$149.99), which requires refrigerated shipping

Card #2

Whizzo Chocolate Company uses only the following shipping methods

Western Food Sender

- a) WFS non-refrigerated service: \$50 plus \$10 times each pound
- b) WFS refrigerated service: \$80 plus \$15 times each pound

Card #3

If a single order is a “mixed order”, that is, it contains both items that require refrigerated shipping and items that do not require refrigerated shipping, it does no harm to the latter items to ship them in refrigerated shipping. If a single order is a mixed order, customer has a choice:

a) only items requiring refrigerated shipping sent via refrigerated shipping , and all other items sent without refrigeration

b) all items, regardless of type, sent via refrigerated shipping

When a customer places a mixed order, the Whizzo sales representative will make this choice clear to the customer, and make clear that absolutely no damage will occur by refrigerating those items which don't require refrigeration.

Practice Problems

1) If a person in Pennsylvania has a total of \$500 to spend on a Whizzo order, which of the following orders could he afford, including the cost of shipping?

five 12-piece assortments, all requiring refrigerated shipping	Yes	No
two large chocolate-covered fruit basket	Yes	No
the all-chocolate chessboard with white & dark chocolate chessmen	Yes	No

2) For each of the following "mixed orders", each containing twenty items total, which shipping option will be less expensive?

Option A) only items requiring refrigerated shipping sent via refrigerated shipping , and all other items sent without refrigeration

Option B) all items, regardless of type, sent via refrigerated shipping

fifteen 12-piece assortments requiring refrigerated shipping and five 12-piece assortments not requiring refrigerated shipping	A	B
ten 12-piece assortments requiring refrigerated shipping and ten 12-piece assortments not requiring refrigerated shipping	A	B
five 12-piece assortments requiring refrigerated shipping and fifteen 12-piece assortments not requiring refrigerated shipping	A	B