

# Linear algebra answers Quest 1

1. Diet 1 – 60 oz A 80 oz B

Diet 2 – 20 oz A 60 oz B

Diet 3 – 0 oz A 100 oz B

2. 60 grams Mix A, 50 grams mix B, 40 grams mix C.

3. Tennis – 400, squash – 200, racket – 0. Maximum profit = 4,600

$$4. \quad U = \begin{array}{ccc} 1 & 2 & -3 \\ 0 & 1 & 3 \\ 0 & 0 & 1 \end{array}$$

$$L = \begin{array}{ccc} 3 & 0 & 0 \\ 2 & 1 & 0 \\ -4 & 9 & -29 \end{array}$$