

A-SSE Mixing Candies

Task

A candy shop sells a box of chocolates for \$30. It has \$29 worth of chocolates plus \$1 for the box. The box includes two kinds of candy: caramels and truffles. Lita knows how much the different types of candies cost per pound and how many pounds are in a box. She said,

If x is the number of pounds of caramels included in the box and y is the number of pounds of truffles in the box, then I can write the following equations based on what I know about one of these boxes:

•
$$x + y = 3$$

• $8x + 12y + 1 = 30$

Assuming Lita used the information given and her other knowledge of the candies, use her equations to answer the following:

- a. How many pounds of candy are in the box?
- b. What is the price per pound of the caramels?
- c. What does the term 12y in the second equation represent?
- d. What does 8x + 12y + 1 in the second equation represent?





ndies
Typeset May 4, 2016 at 22:08:33. Licensed by Illustrative Mathematics under a
Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License.