

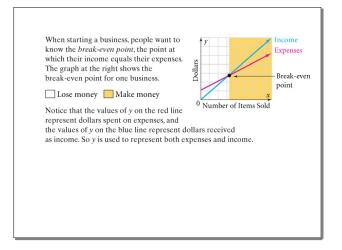
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Suppose you combine ingots of 25% copper alloy and 50% copper alloy to create 40 kg of 45% copper alloy. How many kilograms of each do you need?

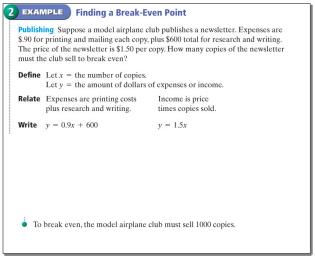
x = 25% copper alloy y = 50% copper alloy

percents of substance mass of substance .25x + .50y = .45(40)x + y = 40

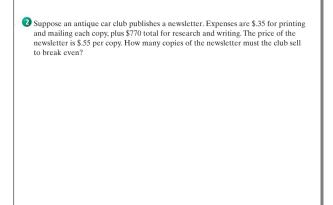
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Ex3) Rebecca has 45 coins, all nickels and dimes. The total value of the coins is \$3.60. How many of each type of coins does Rebecca have?

Jan 26-2:40 PM Jan 26-2:40 PM Ex3b) Sally has \$21.40 in dimes and quarters, for a total of 100 coins. How many of each kind of coin does Sally have?

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