Math 4b. Homework 22.

1. A merchant accidentally mixed candies of the first type (priced at \$3 per pound) with candies of the second type (priced at \$2 per pound). At what price should this mixture be sold to obtain the same total amount, given that it is known that initially the total cost of all candies of the first type was equal to the total cost of all candies of the second type?

2. From a 20-liter can filled with milk, 6 liters were poured out. Which of the following ratios represents the ratio of the amount of milk poured out to the amount remaining?
   $a.\ 3:10;$ $b.\ 7:3;$ $c.\ 3:7;$ $d.\ 10:3.$

3. Bronze is an alloy of tin and copper. (Tin and copper are metals; they are melted together to get an alloy which is called bronze). How much copper and how much tin are there in the 80 kg piece of bronze, if the ratio of tin to copper in bronze is 3 to 17?

4. Anna ate $\frac{1}{3}$ of all the candies and 2 more candies. Mary ate $\frac{1}{4}$ of all the candies and 1 more candy. Then Tina ate half of the candies that were left after Anna and Mary. After that, $\frac{1}{6}$ of the original number of candies remained. How many candies were there at the beginning?

5. A yacht set sail on Monday at noon. The voyage will last for 80 hours. Name the day of the week and the time of its return to port.

6. Evaluate:
   $a.\ \dfrac{(2.3+5.8)\cdot 3\frac{5}{7}}{(4.9-2.3):\frac{7}{9}}$ $(answer\ is\ 9);$ $b.\ \dfrac{0.21\cdot 1.25}{13.6-11.1}$ $(answer\ 0.105);$

7. I drank $\frac{1}{6}$ of a cup of coffee and topped it off with milk. Then I drank $\frac{1}{3}$ of a cup and added more milk. After that, I drank half a cup and filled it up with milk again. Finally, I drank a full cup. So, what did I end up drinking more, coffee or milk?