Math 4e. Homework 5.

1. Knives are sold 10 to a package, forks are sold 12 to a package, and spoons are sold 15 to a package. If you want to have the same number of each item for a party, what is the least number of packages of each you need to buy?

2. Two buses leave from the same bus station, following two different routes. The first bus takes 48 minutes to complete the round-trip route, while the second one takes 1 hour and 12 minutes to complete the round-trip route. How much time will it take for the buses to meet at the bus station for the first time after they have departed for their routes at the same time?

3. In the depot, 3 trains were formed from identical cars. The first one has 418 seats, the second one has 456 seats, and the third one has 494 seats. How many cars are in each train if it is known that the total number of cars does not exceed 50?

4. One of the factors was increased by 100 times. How should the second factor be changed so that the product remains unchanged?

5. One of the factors was decreased by 12 times. How was the second factor changed if the product decreased by 4 times?

6. Find the unknown:

   $a.\ (x + 24) + 53 = 930;$ $b.\ 35 + (x - 17) = 85$

   $c.\ (34 - x) + 23 = 27;$ $d.\ 64 - (15 + x) = 28$

7. Number 882 is divisible by 147, the number 147 is divisible by 21. Is 28 a divisor of 672?

8. Fill the empty spaces in the magic square with numbers from 0 to 8, so that all the columns, rows, and diagonals have the same sum of numbers(hint: think what should be the sum and what number is in the middle).

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