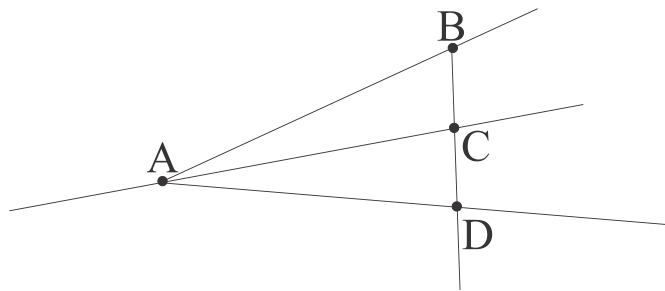


Math 4a. Homework 4.

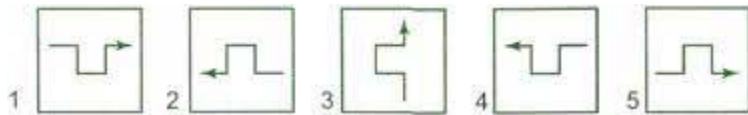


1. Two buses leave from the same bus station following two different routes. For the first one it takes 48 minutes to complete the roundtrip route. For the second one it takes 1 hour and 12 minutes to complete the round trip route. How much time will it take for the buses to meet at the bus station for the first time after they have departed for their routes at the same time?
2. Mary has a rectangular backyard with sides of 48 and 40 yards. She wants to create square flower beds, all of equal size, and plant different kind of flowers in each flower bed. What is the largest possible size of her square flower bed?
3. Find GCD (GCF) of
 - a. 420 and 450,
 - b. 810, 945 and 1125
4. Find LCM of
 - a. 8 and 12
 - b. 15, 18, and 21
5.
 - a. Michel drew three lines, no two of which are parallel, and marked 2 points on each of the three lines. He marked 3 points altogether. How can this be?
 - b. Michel drew three lines, no two of which are parallel, and marked 2 points on each of three lines. He marked 4 points altogether. How can this be?
6. There are 4 children in the family. They are 5, 8, 13, and 15 years old and their names are Julia, Peter, Mary and Ellen. What is the age of each of them if one of the girls goes to kindergarten, Julia is older than Peter, and sum of ages of Julia and Mary is divisible by 3?

7. Name all lines, segments and rays on the picture below. (Example : segment [BC])



8. Find three identical cards (the other side of the cards are blank).



9. Robert did his math assignment but he stained his notebook. Each drop of ink covers the same digit, which is greater than 0. Please, restore his homework!

$$(\text{●} + \text{●} + 1) \times \text{●} = \text{●●}$$