

Unique Method of Images for Math & Science that has proven effective over 49 years (18+ years online)

created by Dr. Boris Farber

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My comments: Solve these problems using materials from previous lectures, do not take shortcuts, and show ALL Steps. Send your work with answers and your name to Farber's Center by emailing farberscenter@gmail.com the day before the next class



Lecture: Working Together

1. Mike can paint a house in 5 days, and Nick can paint the same house in 7 days. Working together, how long will it take them to finish the job?
2. A swimming pool can be filled by an inlet pipe in 3 hours. It can be drained by a drainpipe in 6 hours, if the swimming pool is initially empty and both pipes are opened, in how many hours will it be filled?
3. Anastasia can clean the house in 6 hours. Her brother Peter can do the same job in 9 hours. In how many hours can they do the job if they work together?
4. Tom Sawyer can paint the fence in 24 hours, and Huckleberry Finn takes eight hours. How long would it take the two painters together to paint the fence?
5. A swimming pool has 2 inlet pipes. One fills the pool in 4 hours, the other in 6 hours. The outlet pipe empties the pool in 5 hours. If outlet pipe was left open when the pool was being filled, in how many hours was the pool full?
6. Max can eat a small box of ice cream in 5 days, and Allen can eat the same box of ice cream in 10 days. Eating together, how long will it take them to eat a small box of ice cream?
7. A swimming pool can be filled by one inlet pipe in 4 hours. It can be filled by the second inlet pipe in 8 hours, if the swimming pool is initially empty and both pipes are opened, in how many hours will it be filled?
8. Anna can solve Math problems in 9 days, and Nick can solve Math problems in 27 days. Working together, how long will it take them to finish the job?
9. Huckleberry Finn can paint the fence in twelve hours, and Tom Sawyer r takes eight hours. How long would it take the two painters together to paint the fence?
10. A Mom working alone can clean her house in 3 hours. Her daughter, Annie, can do the same job in 5 hours. Annie's younger brother can mess up the house in 6 hours. Working together, how long will it take them to clean the house?

