

Rate Problems

Using my tap, it takes 6 minutes to fill our water tank. Using the neighbour's hose it takes 9 minutes. How long would it take if I used both the tap and the hose?

At a New Year's Eve party, each person in the room kissed every other person in the room once. By the end of the night there had been 190 kisses, how many people were in the room?

A mad scientist has a collection of spiders and beetles. His electronic floor sensor tells him that there are 174 legs altogether. The infra-red machine tells him that there are 26 bodies. How many beetles and how many spiders are there?

Three ducks and two ducklings weigh 32 kg. Four ducks and three ducklings weigh 44 kg. All ducks weigh the same and all ducklings weigh the same. What is the weight of two ducks and one duckling?