

Name _____ Date _____ Period _____

Systems of Equations - Review Worksheet 3

Complete the following problems. Show all work on a separate sheet of paper.

1. Admission to the movies cost \$9.50 for adults and \$7 for students. If 80 tickets were sold for a total of \$690, how many tickets of each kind were sold?
2. A collection of nickels and dimes totals \$14.50. There are 240 coins in all. How many of each are there?
3. A fishing boat broke down after traveling 2 hours against a 4 km/h current. The boat was carried back to its starting point by the current. The whole trip took 4.5 hours. Find the speed of the boat in still water before the motor failed.
4. Two cars leave town at the same time traveling in opposite directions. One travels 58 mi/h and the other travels 48 mi/h. In how many hours will they be 371 miles apart?
5. Two cars leave town at the same time going in the same direction on the same road. One travels 35 mi/h and the other travels 47 mi/h. In how many hours will they be 84 miles apart?
6. Jona is 26 years older than her daughter. A year ago, the mother was twice as old as her daughter. How old is each now?
7. The speed of a stream is 4 km/hr. A boat travels 2 km upstream in the same time it takes to travel 10 km downstream. What is the speed of the boat in still water?
8. An airplane flew for 3 hours with a tailwind of 40 km/hr. The return flight against the same wind took 4 hours. Find the speed of the airplane in still air.