

1. Ero and Jamal set off at the same time on a 30 km walk for charity. Ero, who has trained all year for this event is 1.4 km/h faster than Jamal, but sees a friend on the route and stops to talk for 20 minutes. Even with this delay, Ero finishes the walk 2 h ahead of Jamal. How fast is each person walking, and how long did it take for each one to finish the walk?
2. On the 42 km go-cart course at Sportsworld, Arshia drives 0.4 km/h faster than Sarah, but has engine trouble part way around the course and must stop for repairs. This stop costs Arshia 30 minutes, so she arrives 15 minutes after Sarah at the end of the course. How fast did each person drive and how long did each take to finish the course?
3. Rima and Bhanu take 16 h to row 39 km down a river and 39 km back. If they can row 8 km/h in still water, find the speed of the current to two decimal places.
4. A river flows at 2 km/h. If John takes 6 h to row 16 km up the river, then 16 km back down, how fast did he row?
5. Jaime bought a case of concert t-shirts for \$450. She kept two for herself and sold the rest for \$560, making a profit of \$10 on each shirt sold. How many shirts were in the case?
6. Stuart agrees to a house-painting job for \$900. He takes four days longer than expected, and has earned \$18.75 less per day than expected. In how many days did he expect to complete the job?
7. A grade 11 class on a field trip to Montreal had lunch in a restaurant. The bill came to \$239.25. Four students had birthdays that day and it was agreed that those four should get a free lunch. The remaining students paid \$1.00 more than if all chipped in. How many students had lunch?