

Math Sheet

Name _____ Score _____ Teacher _____ Date _____

Work Word Problems

Define x in hours, write the reciprocal work-rate equation first, clear denominators without rounding, solve exactly, and give the final time to the nearest hundredth. Both workers start together, complete the same one job, and work at constant additive rates without interference.

1. Jessica can reupholster furniture alone in 6 hours. When Dan helps, they start together and complete the same job in 3 hours at constant rates without interference. How many hours would Dan take to complete the job alone?

2. Jason can paint a room alone in 8 hours. Mary can complete the same job alone in 4 hours. If they start together and work at constant rates without interference, how many hours will the one job take?

3. Alyssa can clean an attic alone in 11 hours. Tim can complete the same job alone in 9 hours. If they start together and work at constant rates without interference, how many hours will the one job take?

4. Sally can spread mulch alone in 7 hours. When Mike helps, they start together and complete the same job in 4 hours at constant rates without interference. How many hours would Mike take to complete the job alone?

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5. Joan can vacuum a house alone in 11 hours. When Tom helps, they start together and complete the same job in 9 hours at constant rates without interference. How many hours would Tom take to complete the job alone?

6. Sam can clean a store alone in 12 hours. Benny can complete the same job alone in 8 hours. If they start together and work at constant rates without interference, how many hours will the one job take?

7. Melanie can repair a roof alone in 6 hours. When Benny helps, they start together and complete the same job in 5 hours at constant rates without interference. How many hours would Benny take to complete the job alone?

8. Keith can paint a house alone in 12 hours. Sally can complete the same job alone in 10 hours. If they start together and work at constant rates without interference, how many hours will the one job take?

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9. Sandy can restock a store alone in 7 hours. Melanie can complete the same job alone in 2 hours. If they start together and work at constant rates without interference, how many hours will the one job take?

10. Nancy can trim shrubs alone in 3 hours. When Sara helps, they start together and complete the same job in 2 hours at constant rates without interference. How many hours would Sara take to complete the job alone?
