

Work Problems

Do ALL Work with paper and pencil /it is helpful to make a chart
NO CALCULATOR use /Check answers below

1. Sam can mow a lawn in 20 minutes. Bob can mow the same lawn in 30 minutes. If they work together, how long will it take them to complete the job together?
2. Mr. Cooper can paint a fence in 2 hours. His son Bill can paint the fence in 6 hours. Mr. Cooper painted alone for 1 hour and stopped working. How many hours would Bill require to finish the job?
3. The larger of two pipes can fill a tank twice as fast as the smaller. Together the two pipes require 20 minutes to fill the tank. Find the number of *minutes* required for the larger pipe, operating alone, to fill the tank.
4. A newsboy can deliver his papers in 80 minutes. His friend can take care of the same route in 2 hours. How long would it take them to do the job together?
5. Mr. Downey can build a brick wall in 9 hours. His son Carl can build the same wall in 18 hours. Mr. Downey started to build the wall, worked for 3 hours, and then stopped working. How many hours would Carl require to complete the wall?
6. One pipe can fill a tank in 8 minutes, a second can fill it in 12 minutes, and a third can fill it in 24 minutes. If the tank is empty, how long will it take the three pipes, operating together, to fill it?
7. Two printing presses, working together, can complete a job in 2 hours. If one press requires 6 hours to do the job alone, how many hours would the second press need to complete the job alone?
8. A farmer, working with his son, needs 3 hours to plow a field. Working alone, the farmer can plow the field in 4 hours. How long would it take the son, working alone, to plow the field?
9. Working alone Ricky can do a job in 12 hours. When Shirley helps, the total job takes only 8 hours. How long would it take Shirley if she worked alone?
10. Mr. Ford can paint the fence around his house in 6 hours. His daughter needs 12 hours to do the job. How many hours would it take them to do the job if they worked together?

Answers:

1. 12 minutes
2. 3 hours
3. 30 minutes
4. 48 minutes *OR* $\frac{4}{5}$ hour
5. 12 hours
6. 4 minutes
7. 3 hours
8. 12 hours
9. 24 hours
10. 4 hours