

Systems of Equations Word Problems

16. Two trains leave stations 360 miles apart at the same time and travel towards each other. One train travels at 70 mph and the other at 80 mph. How long will it take for the trains to meet? How far will each train have traveled?

17. A boat travels 24 miles upstream in 3 hours. The return trip downstream takes 2 hours. Find the speed of the boat in still water and the speed of the current.

18. Sarah traveled a total distance of 100 km. She rode her bike for part of the journey at a speed of 20 km/h and took a bus for the rest at a speed of 60 km/h. The entire journey took 3 hours. How much distance did she cover by bike?

19. Tom and Jerry run on a circular track that is 400 meters long. Tom runs at 5 m/s and Jerry runs at 3 m/s in the same direction, starting at the same point. How long will it take for Tom to lap Jerry?

20. The sum of Anna's age and her father's age is 52 years. Her father is 4 year older than three times Anna's age. How old are Anna and her father?