

Assignment

Date _____ Period _____

- 1) Dan made a trip to his cabin on the lake and back. The trip there took three hours and the trip back took two hours. He averaged 20 mph faster on the return trip than on the outbound trip. Find Dan's average speed on the outbound trip.
- 2) A fishing boat traveled to Tahiti and back. On the trip there it traveled 20 mph and on the return trip it went 6 mph. How long did the trip there take if the return trip took ten hours?
- 3) A container ship traveled to St. Vincent and back. The trip there took 13 hours and the trip back took ten hours. What was the container ship's average speed on the trip there if it averaged 26 km/h on the return trip?
- 4) Totsakan left the science museum and traveled toward the capital. One hour later Chelsea left traveling 8 km/h faster in an effort to catch up to him. After four hours Chelsea finally caught up. Find Totsakan's average speed.
- 5) James left the hospital and traveled toward the ferry office. Two hours later Shayna left traveling at 75 km/h in an effort to catch up to James. After traveling for three hours Shayna finally caught up. What was James' average speed?
- 6) A jet left Paris and flew toward the airshow at an average speed of 174 km/h. An Air Force plane left sometime later flying in the same direction at an average speed of 290 km/h. After flying for three hours the Air Force plane caught up with the jet. Find the number of hours the jet flew before the Air Force plane caught up.
- 7) A passenger plane left London and flew toward Jakarta. Two hours later a jet left flying at 448 km/h in an effort to catch up to the passenger plane. After flying for five hours the jet finally caught up. What was the passenger plane's average speed?
- 8) A container ship left Diego Garcia and traveled north. An aircraft carrier left seven hours later traveling at 20 km/h in an effort to catch up to the container ship. After traveling for three hours the aircraft carrier finally caught up. Find the container ship's average speed.
- 9) An aircraft carrier left Port 53 and traveled north at an average speed of 21 km/h. A fishing boat left sometime later traveling in the same direction at an average speed of 30 km/h. After traveling for seven hours the fishing boat caught up with the aircraft carrier. How long did the aircraft carrier travel before the fishing boat caught up?
- 10) Matt traveled to the recycling plant and back. The trip there took two hours and the trip back took five hours. What was Matt's average speed on the trip there if he averaged 24 mph on the return trip?

- 11) Adam left the airport and traveled toward the dump at an average speed of 60 mph. Sometime later Cody left traveling in the opposite direction with an average speed of 60 mph. After Adam had traveled for four hours they were 480 mi. apart. How long did Cody travel?
- 12) Matt made a trip to his cabin on the lake and back. On the trip there he traveled 24 km/h and on the return trip he went 30 km/h. How long did the trip there take if the return trip took four hours?
- 13) Kali traveled to her cabin on the lake and back. It took one hour less time to get there than it did to get back. The average speed on the trip there was 50 mph. The average speed on the way back was 40 mph. How many hours did the trip there take?
- 14) Imani left the science museum and drove toward the recycling plant. Lisa left one hour later driving at 30 km/h in an effort to catch up to Imani. After driving for two hours Lisa finally caught up. Find Imani's average speed.
- 15) Darryl left the airport and drove toward the train station at an average speed of 45 mph. Stefan left two hours later and drove in the same direction but with an average speed of 75 mph. Find the number of hours Darryl drove before Stefan caught up.

Answers to Assignment (ID: 1)

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| 1) 40 mph | 2) 3 hours | 3) 20 km/h | 4) 32 km/h |
| 5) 45 km/h | 6) 5 hours | 7) 320 km/h | 8) 6 km/h |
| 9) 10 hours | 10) 60 mph | 11) 4 hours | 12) 5 hours |
| 13) 4 hours | 14) 20 km/h | 15) 5 hours | |