

Mathacle

PSet ----- Distance – Rate - Time Problems

Level ---- 1

Number --- 1

Name: _____ Date: _____

1) A container ship left the Dania Pier and traveled north. An aircraft carrier left four hours later traveling at 30 mph in an effort to catch up to the container ship. After traveling for eight hours the aircraft carrier finally caught up. What was the container ship's average speed?

2) A cruise ship made a trip to Guam and back. The trip there took 12 hours and the trip back took nine hours. It averaged 20 km/h on the return trip. Find the average speed of the trip there.

3) Scott left the airport and traveled toward the train station. Three hours later Castel left traveling at 50 mph in an effort to catch up to Scott. After traveling for two hours Castel finally caught up. What was Scott's average speed?

4) Jose traveled to the town hall and back. The trip there took five hours and the trip back took four hours. He averaged 35 km/h on the return trip. Find the average speed of the trip there.

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5) Perry left school driving toward the lake one hour before Jaidee. Jaidee drove in the opposite direction going 6 mph slower than Perry for one hour after which time they were 174 mi. apart. What was Perry's speed?

6) Wilbur left the hardware store and traveled toward the recycling plant at an average speed of 33 km/h. Mary left two hours later and traveled in the same direction but with an average speed of 55 km/h. How long did Wilbur travel before Mary caught up?

7) An aircraft carrier left Hawaii traveling west seven hours before a container ship. The container ship traveled in the opposite direction going 5 km/h slower than the aircraft carrier for six hours after which time the ships were 540 km apart. Find the aircraft carrier's speed.

8) A submarine left the Azores and traveled west. Three hours later an aircraft carrier left traveling 3 mph faster in an effort to catch up to it. After seven hours the aircraft carrier finally caught up. Find the submarine's average speed.

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9) Jimmy drove to his cabin on the lake and back. It took 0.6 hours longer to go there than it did to come back. The average speed on the trip there was 46 km/h. The average speed on the way back was 52 km/h. How many hours did the trip there take?

10) Anjali traveled to the recycling plant and back. The trip there took 5.8 hours and the trip back took 5.1 hours. She averaged 7 mph faster on the return trip than on the outbound trip. What was Anjali's average speed on the outbound trip?

11) A fishing boat left Hawaii traveling west 0.5 hours before a cruise ship. The cruise ship traveled in the opposite direction going 12.5 km/h faster than the fishing boat for 11 hours after which time the ships were 322 km apart. What was the fishing boat's speed?

12) A diesel train left the station traveling north 1.5 hours before a freight train. The freight train traveled in the opposite direction going 6 km/h faster than the diesel train for two hours after which time the trains were 312.3 km apart. Find the diesel train's speed.

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Answers:

1. 20
2. 15
3. 20
4. 28
5. 60
6. 5
7. 30
8. 7
9. 5.2
10. 51
11. 8.2
12. 54.6