

*Do all work on your own paper.* You do **NOT** need to copy down the problem word-for-word.

You **DO** need to write down the question being asked. *You also must define your variables, set up an equation, and show the steps to your solution.*

1. At 10:30 am, two planes leave Houston, TX, one heading east at 560 km/h and the other flying west at 640 km/h. At what time will the planes be 2100 km apart?
2. Jan invested \$1200 at a certain interest rate and \$2200 at a rate 3% higher. Her total interest earned after one year is \$253. Find the two interest rates.
3. At noon a train leaves Phoenix, AZ at 90 mi/h for Monterey, CA, 450 mi away. At 12:15 pm a train leaves Monterey for Phoenix at 100 mi/h. At what time will they pass each other?
4. A cruise ship made a trip to Guam and back. The trip to Guam took 12 hours and the return trip took 9 hours. If its speed on the return trip was 20 km/h, what was its speed on the trip there?
5. An aircraft carrier left Hawaii traveling west. 7 hours later, a container ship left Hawaii heading east, but 5 km/h slower than the carrier. After 6 hours they were 540 km apart. How fast is the aircraft carrier traveling?

**Answers:** 1) 12:15 pm; 2) 5.5% and 8.5%; 3) 2:30 pm; 4) 15 km/h; 5) 30 km/h

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