**PRE-ALGEBRA**

**CHAPTER 7**

**SECTION 5**

**STORY PROBLEMS**

1. A business representative is looking to rent a car. Rent-a-wreck charges $60 per day plus $0.20 per mile. Lemon Leasers charges $30 per day plus $0.50 per mile. At what miles are the costs the same?

A. What are you trying to find? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B. If C is the total cost, how much does it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 cost to rent from Rent-a-wreck?

C. If C is the total cost, how much does it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 cost to rent from Lemon Leasers?

D. Since you are trying to find “At what miles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 are the costs the same?”, set the two costs

 equal to each other.

E. Solve your equation. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

F. If the business representative is looking to drive the car about 125 miles, which company should he choose and why?

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2. Joe leaves his house and travels at a rate of 6 mi/h. His sister, Jane, realizes that Joe has forgotten his lunch and goes after him 15 minutes later. She travels at a rate of 8 mi/h. How long does it take Jane to catch up to Joe?

3. Will takes a bus to Cedar Point. He leaves at 6:00 am and travels at a rate of 50 mi/h. Wayne rides in a car with his friends and follows the same route. If Wayne leaves at 8:00 am, and travels at a rate of 70 mi/h, at what time does Wayne catch up to Will?