Algebra/Trigonometry Section: 1.3b Name:_____

Uniform Motion Problems

1. Brer Rabbit hopped off toward the briar patch at 10 kilometers per hour at 10:00 am. At noon Brer Wolf began the chase from the same starting point. If he caught Brer Rabbit at 2:00 pm., how fast did he run? (20 kph)

2. At noon, Rocket man whizzed off toward Rocket land. 1 hour later, Moonfa whizzed off in the opposite direction at a speed 200 kph less than that of Rocket man. If they were 11,800 kilometers apart at 5 pm., how fast did each travel? (1200 kph and 1400 kph)

3. When the sheriff began his pursuit, Robin Hood was already 7 miles out of Nottingham. If the sheriff traveled at 6 miles per hour while Robin Hood's rate was 2 ½ miles per hour, how long did it take the sheriff to catch up? (2 hours)

4. Elliot began the journey at 8 am, at 40 kph. Benita began to chase him at 11 am, at 50 kph. What time was it when Benita got within 60 kilometers of Elliot? (5 pm)

5. Eloise made the trip on Sunday, and Christian made the same trip on Monday. Eloise traveled at 15 miles per hour. Christian traveled 30 miles per hour, so his time was 3 hours less than Eloise's time. How far did they travel? (90 miles)

6. Edward Longshanks and Queen Eleanor were 54 miles apart at dawn. Edward began the journey to the meeting place at 8 am at 3 mph; 2 hours later, the queen set out to meet him. If they met at 4 pm how fast did the queen travel? (5 mph)