

Name: \_\_\_\_\_ Section: \_\_\_\_\_

**Problem 1.** After robbing a bank in Dodge City, **Kansas**, a robber rides off at a rate of 14 mi/hr. **We aren't exactly sure what the robber is riding. Standard-bred horses can run faster than 30 miles per hour, and the robber is going at a much slower rate; are there llamas in Kansas?** Ten minutes later, the Marshal **is woken up from a nap and** leaves to pursue him at a rate of 16 mi/h. **Likewise, we haven't the slightest clue as to what the Marshal is riding.** How long does it take the Marshal to catch up, **assuming the llamas don't get tired,** with the robber? (10 points.)