**Review problems Units 1-4**

1. **If a baseball was thrown through the air 15 m in 3 seconds, what is the speed?**
2. **If a car traveling at 45 m/s for one minute, how far did the car travel?**
3. **If you took a bus 105 miles north in 1.5 hours, what would be the velocity be in m/s?**
4. **If you dropped a ball 3.8 m in .66 s what would the final velocity be before the ball it the ground?**
5. **If you drove 95 miles in 85 minutes, what was your speed in m/s?**
6. **If a car had a momentum of 2500 Kg m/s and a mass of 1500 pounds, what is the velocity?**
7. **If two vehicles had a total momentum of 30,000 Kg m/s, one car traveling 2.5 m/s before the collision and a mass of 1200 Kg collided with another vehicle that had a mass of 800 Kg, what was the velocity of the two of them after the collision?**
8. **If an object fell for 15.5 s, how far did it fall?**
9. **If an object accelerated from 7.5 m/s to 25.7 m/s in 37.5 s, how far did it go?**
10. **How could you find the center of gravity of the two forks that were balancing on two tooth picks?**
11. **If you were paddling a canoe 3 m/s up stream and the current was moving 6 m/s, what would the resultant be?**
12. **What are the units for power?**
13. **If a person moved a mass of 80 N, 250 m in 125 s , how much power was used?**
14. **If a car traveling 25 m/s at 45 degrees collided with another car traveling 56 m/s at 95 degrees, what would the resultant of the two cars after the collision**?

1. **If a football player running 15 mph at 20 degrees collided with another running 7.5 mph at 90 degrees, what would the resultant be?**
2. **If a person was jogging on the sidewalk at a velocity of 6.5 mph at 180 degrees, collided with a person a bike traveling 20 mph at 270 degrees, what would the resultant be?**
3. **If a hot air balloon was traveling 8.5 mph at 95 degrees collided with a wind traveling 25 mph at 200 degrees, what would the resultant be?**
4. **If a car traveling 45 mph at 90 degrees collided with another traveling 72 mph at 0 degrees, what would the resultant be?**
5. **If the tension of a string connected to a kite applied 25 N of force at 50 degrees and some wind applied a force of 30 N at 111 degrees, what would the resultant be?**
6. **If a person was paddling a canoe down a river 12.5 mph at 75 degrees and the current was traveling 7.2 mph at 82 degrees, what is the resultant?**