

5.3 Review Questions

1. How much KE does a car have if it's traveling 28.8 m/s and has a mass of 750 Kg?
2. A 600 Kg car has 187,500 J of KE traveling down the highway. How fast is it going?
3. How much KE does a 10.0 g bullet have if it is traveling 400 m/s?
4. What is the mass of a person who has 1000 J of energy when traveling at a speed of 5.0 m/s?
5. Which has more energy, a 10 Kg cannonball going 3 m/s or a 3 Kg shot put going 10 m/s?
6. When a car is going 28 m/s it has 100,000 J of kinetic energy. If the car were going three times faster (84 m/s), how much KE would it have?