

Here's the list of questions that go along with the tutoring video **WORD PROBLEMS**. Use these to follow along with the problems as they are demonstrated.

- 1. If Engine 5 used 675 gallons out of a 1500 gallon tank at a fire, what percentage of water is left in the tank?**
- 2. If you were to change 85.72 to a percentage in relation to the number 1, what would the percentage be?**
- 3. If you scored 88% on your firefighter written exam, and answered 132 questions correctly. How many questions were on the exam?**
- 4. A local volunteer department has 22 firefighters on staff. During the weekly training 4 more women than half the number of men are present. There are 10 women present, how many men are at training?**
- 5. You show up on scene to a commercial structure fire. The grounds manager tells you that the warehouse is broken into 6 separate rooms. The front of the warehouse is 160 ft across and the area of the entire warehouse is 32,000 sq ft. How long are the sides of the warehouse assuming it is a rectangle?**
- 6. While making pre-plans you see that the basement of a commercial building has an odd shape. Given the shape and dimensions, what is the area of the basement? (See video for shape and dimensions.)**



7. You get called for a structure fire. On scene you see it's a detached garage and the homeowner tells you the area of the garage is 108 square feet, and the A side measures 12 ft. What is the distance of a straight line from the A/D corner to the B/C corner?

8. Driver A makes a 300 mile trip in 6 hours with an average speed of 50 mph. Later that day, Driver B makes the same trip in 5 hours. How much faster was Driver B versus Driver A?