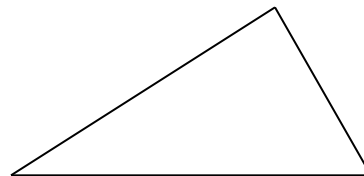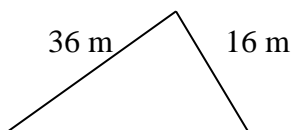# Ratios, Rates and Proportions Problems

Direction: Solve each problem listed below. Round to the nearest hundredth when necessary

1. In Selma, Alabama supporters marched 1.6 miles every 25 minutes. At that rate, how long would it have taken them to march 4.8 miles?

2. Booker T. Washington earned $25 every 8 hours as a teacher at the Tuskegee Normal and Industrial Institute in Alabama (Tuskegee University). At that rate, how much would he earn every 12 hours?

3. Your family is planning a pilgrimage to Africa by airplane. In your excitement, you research the distance from Atlanta to Ghana and learn that it is approximately 5770 miles away. You also learn that an airplane can fly up to 105 miles every ½ hour. How long will it take for your family to fly to Ghana at the same rate of speed?

4. Aaron Douglas was a famous artist of the Harlem Renaissance. Let's assume Aaron Douglas sold nine of his paintings for $109.78, how much would it have cost to purchase four?

5. The Freedman's Bureau is helping a community build a school. They find an old building and decide to paint it. If one gallon of paint covers 825 sq. ft., how much paint is needed to cover 3824 sq. ft.?

6. Benjamin Banneker worked diligently to find exact lengths of angles. These two figures are similar. Imagine you are Benjamin Banneker and use a proportion to find the length of side n.

7. Maxine Waters earns $3541 a week serving as a U.S representative for California. Her take-home pay, however, is $1240. What is the ratio of her gross pay to her take-home pay?

$$\frac{3541}{1240} =$$

8. Write the ratio of President Barack Obama's service terms to years as a fraction in lowest terms: 2:8