Chapter 4 Pre-Opportunity Name _____ Date _____

1) What is the equation we learned about in this chapter that involved distance, rate and time. 1) _____

2) It takes Bernice 2 hours and 15 minutes to travel 9 miles what is her average speed on the trip? 2) _____

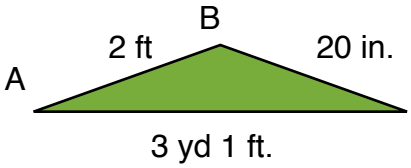
3) Jill traveled 109 kilometers going 28 kph. How long did it take her to drive this distance in hours and minutes? 3) _____

4) What is the base unit for jam that costs $5.98 for 12 oz.? Page 159 4) _____

5) Reduce 200 miles / 5 hours to it's base unit. Page 159 5) _____

6) Put these fractions in order from least to greatest. $\frac{2}{3}, \frac{3}{5}, \frac{4}{7}, \frac{5}{9}$ 6) _____

7) What is the ratio of AC to AB? 7) _____



8) What is the equation we used in chapter 4 for density? Page 166 8) _____

9) Find the density of a substance with a mass of 150 g and a volume of 40 cm^2 9) _____

10) Simplify the expression $\frac{4\,feet}{3\,seconds} \bullet \frac{120\,seconds}{2\,minutes} \bullet \frac{1\,yards}{3\,feet}$ 10) _____

11) Express 15 pounds in terms of kilograms. (use page 360.) 11) _____

12) Express 336 ounces in gallons. 12) _____

13) Express 2 quarts in liters. 13) _____

14) Use the cross product to solve $\frac{6}{2} = \frac{X}{5}$ 14) _____

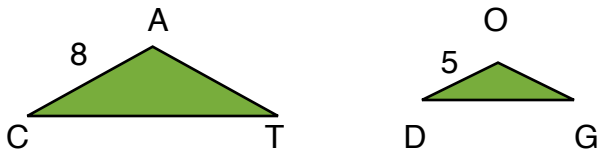
15) Use the cross product to solve. Round your answer to the nearest 100th. $\frac{2.2}{8} = \frac{.25}{X}$ 15) _____

16) Use the cross product to solve $\frac{Y}{2} = \frac{81}{3}$ 16) _____

17) Use the cross product to solve. Round your answer to the nearest 100th. $\frac{1.5}{R} = \frac{2.\overline{3}}{3.1}$ 17) _____

18) Use the cross product to find $\overline{AT}$ if $\overline{OG}$ is 4 cm (see below) 18) _____

19) Use the cross product to find $\overline{AT}$ if $\overline{OG}$ is 3.5 inches 19) _____



20) A photograph measuring 3 inches by 5 inches is to be enlarged so that the longer side of the enlargement will measure 11 inches. How long will the shorter side of the photograph be? 20) _____

21) ΔMTV ~ ΔVHI TM = 5, MV = 8 and TV = 10. If HI = 15 what is the perimeter of ΔVHI 21) _____