## Master Maths 10 Worksheet 5 Decimal Numbers - Problem Solving

## *Name*:\_\_\_\_\_



5. Willie Wheels clocked a time of 47.352 sec in 1. A dam holds 1.876 ML of water. The farmer uses 0.7035 ML to irrigate his farm. the first lap of a motor cycle race. What fraction of the dam's water Max Mono, in his first lap, had a time of did he use? 47.329 sec. (a) Which rider had the fastest time? Write fraction in its simplest form. **2.** To make a certain chemical. 1.356 L of nitric acid was added to 3.024 L of benzene. (b) What was the difference between their The mixture was poured equally into 15 vials. lap times? There was 0.405 L of the mixture remaining. What was the volume of mixture in each vial? (c) Willie's second lap was three thousandths of a second faster than his first. What was the time for his second lap? **3.** An electric generator is rotating at the rate of 2400 revolutions per minute (rpm). (a) How many revolutions occur (d) Max's second lap was nine hundredths of every second? a second slower than his first. What was Max's second lap time? (b) What is the time of one revolution? Give answer in seconds correct to three decimal places. **6.** A truck has a load of 60 bags of oats and 80 bags of wheat. (c) The time of each revolution is changed The total (gross) weight of the truck and load to 0.01875 seconds. How many revolutions is 7.1 tonnes. occur each minute (rpm)? At its first delivery point, 20 bags of oats and 30 bags of wheat are unloaded. The gross weight was then 5.8 tonnes. At its next stop, 20 bags of oats and 40 bags of wheat were unloaded. Its gross weight was then 4.2 tonnes. **4.** Hilde swam the 100 m freestyle at the State (a) Find the weight (in kg) of a bag of wheat. championships in a time of 58.69 seconds. This was 0.43 seconds faster than the previous record. Olive came second in the race, 0.78 seconds behind Hilde. (a) What was the previous record time? (b) Find the weight (in kg) of a bag of oats. (b) What time did Olive swim?