

To: Deb Hauberg

RE: 7<sup>th</sup> Grade Math

Blizzard Bag Day 3

Rational Numbers/Compare and Order

From: Taylor/Stone

**2-1****Word Problem Practice****Rational Numbers**

<p><b>1. ASTRONOMY</b> The pull of gravity on the surface of Mars is 0.38 that of Earth. Write 0.38 as a fraction in simplest form.</p>	<p><b>2. ENERGY</b> Nuclear power provided 78% of the energy used in France in 2005. Write 0.78 as a fraction in simplest form.</p>
<p><b>3. WEIGHTS AND MEASURES</b> One pint is about 0.55 liter. Write 0.55 liter as a fraction in simplest form.</p>	<p><b>4. WEIGHTS AND MEASURES</b> One inch is 25.4 millimeters. Write 25.4 millimeters as a mixed number in simplest form.</p>
<p><b>5. EDUCATION</b> A local middle school has 47 computers and 174 students. What is the number of students per computer at the school? Write your answer as both a mixed number in simplest form and a decimal rounded to the nearest tenth.</p>	<p><b>6. BASEBALL</b> In a recent season, the Atlanta Braves won 90 out of 162 games. What was the ratio of wins to total games? Write your answer as both a fraction in simplest form and a decimal rounded to the nearest thousandth.</p>
<p><b>7. COLLEGES AND UNIVERSITIES</b> Recently, a small college had an enrollment of 1,342 students and a total of 215 faculty. What was the student-faculty ratio for this college? Write your answer as both a mixed number in simplest form and a decimal rounded to the nearest hundredth.</p>	<p><b>8. BASKETBALL</b> In a recent season, Shaquille O'Neal made 658 field goals out of 1,095 attempts. What was Shaquille O'Neal's ratio of successful field goals to attempts? Write your answer as both a fraction in simplest form and a decimal rounded to the nearest thousandth.</p>

**2-2****Word Problem Practice*****Comparing and Ordering Rational Numbers***

<p><b>1. BASKETBALL</b> In the last ten games, Percy made <math>\frac{7}{12}</math> of his free throws. For the same period, Tariq made <math>\frac{4}{7}</math> of his free throws. Which player has the better free throw record?</p>	<p><b>2. SPORTS</b> Central's baseball team won <math>\frac{53}{78}</math> of its games last year, while Southern's team won <math>\frac{55}{81}</math> of its games. Which team had the better record?</p>
<p><b>3. MEASUREMENT</b> Beaker A contains <math>4\frac{1}{3}</math> fluid ounces of water, while beaker B contains <math>4\frac{3}{10}</math> fluid ounces of water. Which beaker has the smaller amount of water?</p>	<p><b>4. NATURE</b> The two trees in Opal's back yard have circumferences of <math>12\frac{5}{8}</math> inches and <math>12\frac{3}{5}</math> inches. Which circumference is larger?</p>
<p><b>5. EXERCISE</b> On Monday, Rob averaged 3.75 laps per minute. On Tuesday, he averaged <math>3\frac{4}{5}</math> laps per minute. On which day did Rob run faster?</p>	<p><b>6. FOOD</b> Hector and Carla both gave apples to their teacher. Hector's apple weighed <math>6\frac{7}{12}</math> ounces, while Carla's apple weighed 6.65 ounces. Which apple weighed more?</p>
<p><b>7. SPORTS</b> Christina ran one lap in 83.86 seconds, while Della's time for one lap was <math>83\frac{7}{8}</math> seconds. Which runner had the faster time?</p>	<p><b>8. STATISTICS</b> The median of a set of numbers can be found by first putting the numbers in order from least to greatest, then choosing the middle number. Find the median of 5.79, <math>5\frac{3}{4}</math>, <math>5\frac{7}{8}</math>, 5.9, and <math>5\frac{4}{5}</math>.</p>