

Word Problem Wrap Up #1 Name: _____ Date: _____

- 1) Justice simplified a fraction to $\frac{-3}{7}$ by removing the common factors, which were 3 and 5. What was the original fraction? _____
- 2) In the men's 5000 meter short-track speed-skating relay in the 2002 Olympics, the Canadian team won the gold medal with a time of 411.579 seconds, defeating the second place Italian team by 4.748 seconds. How long did it take the Italian team to finish the race? _____
- 3) In the World Championships for the 100-meter dash in Edmonton, Alberta, Canada, on August 5, 2001, Tim Montgomery had a reaction time of 0.157 seconds. His total race time was 9.85 seconds. How long did it take him to run the actual distance? _____
- 4) A college football must be between $10\frac{14}{16}$ inches and $11\frac{7}{16}$ inches long. What is the greatest possible difference in length between two college footballs that meet these standards? _____
- 5) The gutter of a bowling lane measures $9\frac{5}{16}$ inches wide. This is $\frac{3}{16}$ inch less than the widest gutter permitted and $\frac{5}{16}$ inch greater than the narrowest gutter permitted. What is the greatest possible difference in the width of the two gutters? _____
- 6) People who are physically active should drink $\frac{2}{3}$ ounce of water per pound of body weight. How much water should a 245-pound football player drink per day? _____
- 7) At a clothing store, the ticketed price of a sweater is $\frac{1}{2}$ the original price. You have a discount coupon for $\frac{1}{4}$ off the ticketed price. What fraction of the original price is the additional discount? _____
- 8) A student multiplied two mixed numbers in the following fashion: $3\frac{3}{8} \cdot 4\frac{1}{3} = 12\frac{1}{8}$ What's the error?

- 9) In the pattern $\frac{1}{3} + \frac{1}{4} + \frac{1}{5} \dots$, which fraction makes the sum greater than 1? Explain. _____
- 10) On January 20, 2001, George W. Bush was inaugurated as the forty-third president of the United States. Of the 42 presidents before him, $\frac{1}{3}$ had served as vice-president. Of those previous vice-presidents, $\frac{3}{7}$ served as president for more than four years. What fraction of the first 42 presidents were former vice-presidents who also served more than four years as president? _____
- 11) You drink $\frac{3}{4}$ pint of spring water. One serving of the water is $\frac{7}{8}$ of a pint. What fraction of a serving did you drink? _____
- 12) The platform on the school stage is $8\frac{3}{4}$ feet wide. Each chair is $1\frac{5}{12}$ feet wide. How many chairs will fit across the platform? _____
- 13) Madi is eating her favorite cereal. There are $3\frac{2}{3}$ servings remaining in the box. Madi pours only $\frac{1}{3}$ of a serving into her bowl at a time. How many more bowls can Madi have before the box is empty? _____
- 14) Lauren has 41 DVDs in cases that are each $\frac{5}{8}$ inch thick. Can she put all the DVDs on a shelf that is 29 inches long?

- 15) According to the 2000 U.S. census, about $\frac{1}{30}$ of the U.S. population resides in Los Angeles County. About $\frac{1}{8}$ of the U.S. population resides in California. What fraction of the California population resides in Los Angeles County?

- 16) A $2\frac{1}{4}$ -foot-long piece of wood is needed to replace a window sill. If this amount is cut from a piece of wood $8\frac{7}{8}$ feet long, how much remains? _____
- 17) A DVD contains a movie that takes up $4\frac{1}{3}$ gigabytes of space. If the DVD can hold $9\frac{2}{9}$ gigabytes, how much space on the disk is unused? _____