

Name _____

Date _____

..... Word Problems for Multiplication & Division of Fractions

Each of the word problems below involves either multiplication or division of fractions.
Read each problem carefully and solve to lowest terms when possible.

- 1) One of the cats in the neighborhood had six kittens all about the same size. If each of the new kittens weighed about $5 \frac{1}{2}$ ounces, how much would all the new kittens weigh?
- 2) Mr. Somers had twenty pieces of metal that were all the same length. If each piece of metal was $3 \frac{1}{5}$ inches long and he put them side by side, what would be the total length of all the pieces together?
- 3) Linda started taking piano lessons. She had to practice $1 \frac{3}{4}$ hours each day. If after only 8 days Linda decided she wanted to stop, how many hours did she take lessons?
- 4) For one of their Science experiments the class used $10 \frac{1}{2}$ quarts of water. If there were 7 groups doing the experiment and each group used the same amount of water, how many quarts of water did each group use?
- 5) A bunch of neighborhood kids went on a hike through the nature center. The total mileage they walked was $16 \frac{2}{3}$ miles. If each kid contributed $4 \frac{1}{6}$ miles to the hike, how many kids went on the hike?
- 6) Luke's mission was to pick up a new supply of qualons for the inhabitants of Plutarkia. Luke and his crew picked up 25 cases on qualons and put them aboard his ship. If the total weight of the qualons was $26 \frac{2}{3}$ megalors and each case of qualons weighed the same, how much did each case of qualons weigh?
- 7) Larry bought $12 \frac{1}{2}$ pounds of candy to share with his friends. If he gave $2 \frac{1}{2}$ pounds to each of his friends, how many friends did he share his candy with?
- 8) During the rainstorm last week Jackson and his sister wanted to see how much water they could collect from the rain. In order to do this they put out 12 three-and-a-half liter containers to catch the water in. If all the containers got filled four times, how many liters of water did they collect in all?
- 9) As part of her club activities Mrs. Walmar bought 10 jars of preserves to sell at the club carnival. If each jar of preserves was $9 \frac{1}{2}$ ounces, how many ounces would Mrs. Walmar sell if she sold all the jars?
- 10) Lynn has 15 different color markers in her new case. The total weight of all the markers in the case is $37 \frac{1}{2}$ ounces. If each felt marker is the same, how much does each of Lynn's markers weigh?
- 11) In Language Arts the class was assigned to write a team paper. Each team was to write $5 \frac{1}{2}$ pages for the combined paper. When all the teams put their papers together, there was a total of 44 pages. How many teams had worked on this paper?
- 12) Jason was in the process of writing a story for a school contest. So far he has completed $10 \frac{1}{2}$ pages of this story. On the average each page has taken him $1 \frac{2}{3}$ hours to write. How much time has Jason already put into writing his story?
- 13) Tom ran a complete mile. Sarah ran half of that. Mike ran half of what Sarah ran and Lisa ran half of what Mike ran. What part of a mile did Lisa run?

..... Word Problems for Multiplication & Division of Fractions – Side 2

- 14) The students in the class were given a prize for collecting the most toys for the school toy drive. Their prize was $16 \frac{1}{2}$ gallons of ice cream. If the students ate $\frac{1}{3}$ of this ice cream before going to lunch, how many gallons of ice cream did they eat?
- 15) During one hot summer afternoon Patty and Nancy decided to have a water balloon fight. After filling up all the balloons, the meter on the water hose showed they had used $147 \frac{1}{3}$ ounces of water. If they knew that each balloon held $11 \frac{1}{3}$ ounces of water, how many balloons did they have to throw at each other?
- 16) The new set of ³⁰books finally arrived at the school. When they were stacked on top of one another on the counter, the stack was $67 \frac{1}{2}$ inches high. How thick was each of the new books if they were all the same size?
- 17) Sally Joe got a new job! Because Sally Joe was talented in so many areas her new job was also interesting. This time she became head waitress at a fancy restaurant and was in charge of all the waitresses. Sally Joe had all her waitresses work a total of $97 \frac{1}{2}$ hours on Saturday their busiest day. If each of the 15 waitresses put in the same amount of time, how much time did each waitress work that day?
- 18) Dianna, Chris and Karen thought it would be fun to count the number of squares of tile in the classroom floor. They ended up counting $127 \frac{1}{2}$ squares. If each of these squares was 12 inches, how many square inches would make up their classroom?
- 19) One weekend Mark, Joanne, Debbie and two of their friends went fishing. When they returned at night they wanted to weigh all the fish they had caught. Putting all of the catches on the scale they saw that they had caught a total of $16 \frac{1}{4}$ pounds of fish. If they divided this equally among themselves, how much fish did each one of them take home?
- 20) One of the boats at the marina was traveling $7 \frac{2}{5}$ nautical miles per hour. At that rate how many miles would it travel in $6 \frac{1}{4}$ hours?
- 21) The tank on Shana's new model airplane can hold $\frac{3}{8}$ gallon of fuel. If the tank is now $\frac{1}{2}$ full, what part of a gallon of fuel is there now in the tank?
- 22) Sally Joe got another new job! This time her job took her on a dangerous mission. She had the job of getting some rare spotted bananas off of rare spotted banana trees in South Africa. If she collected $9 \frac{4}{5}$ cases of these rare bananas and each case weighed $5 \frac{3}{7}$ kilograms how much did all the bananas weigh? (you might say that Sally Joe was a little "bananas" for doing this, yes?)
- 23) Each box of clothes the kids collected for the clothing drive weighs $5 \frac{1}{4}$ pounds. How many pounds would $10 \frac{2}{3}$ of these boxes weigh?
- 24) Jasmir and her friend wanted to do something different. They decided to go to the track and see how many times they could run around the track without stopping. When they finally finished, their stopwatch showed they each ran a total of $23 \frac{2}{5}$ minutes. If on the average Jasmir also knew it took them $4 \frac{1}{2}$ minutes to run around the track once, how many times did they make it around the track?
- 25) Sheila was making cookies for the school parent-student dinner. In the blender Sheila knew that she had put in $13 \frac{1}{2}$ ounces of ingredients she had to mix together. After she was finished, she poured the mix into $2 \frac{1}{4}$ ounce cupcake tins. How many of these cupcakes would one batch of this mix make?

ANSWERS for Word Problems for Multiplication & Division of Fractions

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|--------------------|----------------------|
| 1) 33 ounces | 14) 5 1/2 gallons |
| 2) 64 inches | 15) 13 balloons |
| 3) 14 hours | 16) 2 1/4 inches |
| 4) 1 1/2 quarts | 17) 6 1/2 hours |
| 5) 4 kids | 18) 930 inches |
| 6) 1 1/15 megalons | 19) 3 1/4 pounds |
| 7) 5 friends | 20) 46 1/4 miles |
| 8) 168 liters | 21) 3/16 of a gallon |
| 9) 95 ounces | 22) 53 1/5 pounds |
| 10) 2 1/2 ounces | 23) 56 pounds |
| 11) 8 teams | 24) 5 1/5 times |
| 12) 17 1/2 hours | 25) 6 cupcakes |
| 13) 1/8 mile | |

