

EXTRA PRACTICE 14**Solving Problems with Fractional Notation and Mixed Numerals****Use after Section 3.4, 3.6, 3.7, 4.2, 4.3, 4.6, and 4.7**

Name _____

Solve. Be sure to read carefully!

1. A waffle recipe says to use $1\frac{3}{4}$ c of pancake mix, $1\frac{1}{4}$ c of cold water, 1 egg, $\frac{1}{2}$ c bran cereal, and 2 T oil.
How much of each ingredient is needed for $\frac{1}{3}$ of the recipe? How could you measure the amounts of pancake mix, water, and egg? _____
2. A shoo-fly pie is cut into 6 pieces. A tamale pie of the same size is cut into 5 pieces. The pieces of which pie are larger? Which fraction is larger, $\frac{1}{6}$ or $\frac{1}{5}$? _____
3. A baker bought a 50 lb bag of flour. He used $\frac{1}{3}$ of it one day, $\frac{1}{6}$ the next day, and $\frac{1}{4}$ the third day. What fraction of the bag was left? How many pounds were left? _____
4. A car measures $\frac{3}{1000}$ mi long. The distance from Los Angeles to San Francisco is 425 miles. About how many cars could be lined up end to end between the two cities? _____
5. A car was bought for \$8900. The down payment was $\frac{1}{5}$ of the price, the trade-in amounted to $\frac{1}{10}$ the price, and the rest was borrowed. How much money was borrowed?

6. The price of stock was $\$28\frac{1}{8}$. The price rose $\$\frac{1}{4}$, and then declined $\$\frac{5}{8}$. What was the resulting price?

7. A pipe $\frac{7}{8}$ yd long is cut into 3 pieces. How long is each piece? _____
8. From a board $5\frac{1}{2}$ ft long, 3 pieces are to be cut. One is to be $1\frac{2}{3}$ ft, the second, $1\frac{1}{4}$ ft, and the third $2\frac{1}{2}$ ft. How long will the leftover piece be? _____
9. A stretch of highway is $28\frac{1}{3}$ mi long. Already $\frac{2}{5}$ of it has been repaved. How many miles still need to be repaved? _____
10. A box of cold cereal says that one serving of the cereal with milk provides 6 grams of protein, which is $\frac{3}{20}$ (15%) of the U.S. recommended daily allowance (RDA) for protein. What is the U.S. RDA for protein?

11. An area of 640 sq ft is being painted. The painter has already finished 240 sq ft. What fraction of the area is still to be painted? _____

EXTRA PRACTICE 14 (continued)**Solving Problems with Fractional Notation and Mixed Numerals****Use after Section 3.4, 3.6, 3.7, 4.2, 4.3, 4.6, and 4.7**

12. A package of hamburger meat weighs $\frac{3}{4}$ lb. If a person eats half of the package, how much of a pound is eaten? Is the amount more or less than a quarter-pounder? _____
13. A container holds $1\frac{1}{2}$ gal of lemonade. How many people can be served if each person drinks $\frac{1}{6}$ gal?

14. A full-time salary is \$19,200. What would a person's salary be working $\frac{2}{3}$ time? _____
15. A man's hourly wage is \$6 for 40 hours. He gets $1\frac{1}{2}$ times that for work over 40 hours. How much is his paycheck for a 45-hour week? _____
16. A bookworm is eating its way through 2 books, each with pages $1\frac{1}{8}$ in. thick when closed. The covers of each book are each $\frac{3}{16}$ in. thick. How far has the bookworm traveled when it has gone completely through the 2 books? _____
17. A roll of plastic sheeting is 25 yd long. How many pieces can be cut from the roll, if each piece is $1\frac{1}{4}$ yd long? _____
18. A mechanic picks up a $\frac{1}{2}$ in. socket and a $\frac{5}{8}$ in. socket. One is too large and the other too small. Her set of sockets does have sixteenths of an inch. Which one should she try? By how much are the others too large and too small? _____
19. A Christmas tree farm is 20 acres. The owners want $6\frac{1}{2}$ acres planted with long-needle pines, $3\frac{1}{4}$ acres on pinon pine, and $5\frac{3}{4}$ with fir trees. The rest are to be planted with spruce trees. How many acres are left for spruce trees? _____
20. A home economics teacher wants to give each of 21 students a piece of material cut from a bolt which has $18\frac{2}{3}$ yd left on it. Should he give them a little less than a yard each, or a little more? Exactly how long would each piece be to use the whole bolt? _____.