

Solve the problems below using your knowledge of multiplying and dividing fractions and mixed numbers.

1. Jane has 15 pieces of gum. She gave  $\frac{7}{8}$  of her gum to Mary. How many pieces did Mary get?

$13\frac{1}{8}$  pieces

2. One batch of muffins contains  $1\frac{3}{4}$  cups of raisins. How many cups of raisins are needed to make 6 batches of muffins?

$10\frac{1}{2}$  cups

3. Mark drank  $\frac{5}{8}$  of a 24-ounce can of juice. Lili drank  $\frac{1}{3}$  as much juice as Mark did. How many ounces did each one drink?

Mark 15 oz and Lili 5 oz

4. The gasoline tank of a large car can hold 14 gallons. If the tank is  $\frac{1}{8}$  full, how many gallons of gasoline are needed to fill up the tank?

Have  $\frac{7}{4}$  gal; need  $12\frac{1}{4}$  gal

5. A piece of wood is 15 feet long. How many  $\frac{3}{4}$ -foot sections can be cut from it?

20 sections

6. A candy bar is  $\frac{3}{4}$  of an inch long. If it is divided into pieces that are  $\frac{1}{8}$  of an inch long, how many pieces is that?

6 pieces

7. Lenny has  $4\frac{5}{6}$  feet of ribbon on each of 4 tables. How many feet of tape does he have?

$19\frac{1}{3}$  ft

8. A table has a length of  $3\frac{2}{3}$  feet and a width of  $2\frac{3}{4}$  feet. What is the area of the table?

$10\frac{1}{12}$  sq ft

9. Janet has  $5\frac{3}{4}$  inches of licorice. She divides the licorice into pieces that are  $1\frac{7}{8}$  inches long. How many pieces will she have? (Write your answer as a mixed number.)

$3\frac{1}{15}$  pieces

10. Jack has a piece of wood that is  $12\frac{2}{3}$  inches long. He divides the wood into pieces that are  $3\frac{4}{5}$  inches long. How many pieces will he have? (Write your answer as a mixed number.)

$3\frac{1}{3}$  pieces