GUIDED PRACTICE

Lesson 5 - Multiplying and Dividing Fractions

Part 1 - Multiplying Whole Numbers by Fractions

For the following problems, draw a model to show how to solve.

5 x 3/5 18 x 1/3

½ of the patients in ICU are male. If there are 12 patients, what number of them are male?

In the ER, a patient came in claiming to have cut off 1/4 of her finger. If her finger was 3 inches long to begin with, how many inches of her finger did she cut off?

Part 2 – Multiplying Fractions by Fractions

For the following problems, draw a model to show how to solve.

2/3 x 3/5 ¾ X 1/8

On Barbie’s visits with her home health patients today, 2/3 of the patients needed an injection. 3/8 of those patients needed a steroid injection. What fraction of the home health patients needed steroid injections?

2/3 of the staff at the hospital are nurses. 1/8 of those nurses only work on the weekends. What fraction of the total staff are nurses and work only on weekends?

Part 3 – Using the Algorithm

8/9 x 1/10 ¾ x 7/9 7/8 x 16

96 x 1/6 1 1/3 x 6 1/8 2 ¾ x 9

Part 4 – Whole numbers divided by fractions

For the following problems, draw a model to show how to solve.

2 ÷ ¼ 6 ÷ ½

A gauze roll is 6 feet long, and must be cut up into strips of ¼ foot. How many strips can be made out of one gauze roll?

Part 5 – Fractions divided by whole numbers

For the following problems, draw a model to show how to solve.

½ ÷ 4 ¼ ÷ 3

Betty works in the hospital cafeteria. She has ½ pound of chicken salad, and wants to make 8 croissants. How fraction of the chicken salad would go on each croissant?

Part 6 – Fractions divided by fractions

For the following problems, draw a model to show how to solve.

½ ÷ ⅓ ⅔ ÷ ⅙

How many ⅛ teaspoon doses of cough medicine could you get out of the ¾ teaspoons left in the bottle?

Part 7 – Using the algorithm

⅘ ÷ ¼ 1 ½ ÷ ⅗ ⅞ ÷ ¼

4 ⅔ ÷ 2 ¼ 6 ÷ ½ ¼ ÷ 12