

# Answer Key • Lesson 7: Multiply Fractions by a Whole

## Homework

Complete the function machines. Write your answers in simplest form. Do not leave any improper fractions.

1. Rule: Multiply by 6

Input	Output
$\frac{2}{3}$	
$\frac{1}{5}$	
$\frac{3}{4}$	
$1\frac{1}{2}$	
$\frac{5}{6}$	

2. Rule: Multiply by 3

Input	Output
$\frac{1}{7}$	
$\frac{4}{5}$	
$\frac{3}{8}$	
$\frac{7}{3}$	
$\frac{6}{9}$	

3. Rule: Multiply by  $\frac{2}{3}$

Input	Output
27	
9	
3	
7	
10	

4. Rule: Multiply by  $\frac{1}{5}$

Input	Output
25	
20	
15	
10	
5	

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Multiply Fractions by a Whole

5G • Grade 5 • Unit 10 • Lesson 7 497

### Student Guide - Page 497

Name \_\_\_\_\_ Date \_\_\_\_\_

## Family Recipe

### Homework

Find a recipe and change the amount of each ingredient so that it serves 12 people. List each ingredient and its amount in the appropriate columns. Write a number sentence to show how you determined the new amount.

Example:

Aunt Bessie's Sugar Cookies

Original Recipe's Ingredients Serves 4	Revised Recipe's Ingredients Serves 12
$\frac{1}{2}$ cup of sugar	$\frac{1}{2} \times 3 = \frac{3}{2}$ or 2 cups of sugar
$\frac{1}{4}$ cup of butter	$\frac{1}{4} \times 3 = \frac{3}{4}$ or $2\frac{1}{4}$ cups of butter

Name of Recipe: \_\_\_\_\_

Original Recipe's Ingredients Serves _____	Revised Recipe's Ingredients Serves 12

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SAB • Grade 5 • Unit 10 • Lesson 7 421

### Student Activity Book - Page 421

## 3 TG • Grade 5 • Unit 10 • Lesson 7 • Answer Key

### Homework (SG p. 497) Questions 1–4

1.

Rule: Multiply by 6

Input	Output
$\frac{2}{3}$	$\frac{12}{3} = 4$
$\frac{1}{5}$	$\frac{6}{5} = 1\frac{1}{5}$
$\frac{3}{4}$	$\frac{18}{4} = 4\frac{2}{4} = 4\frac{1}{2}$
$1\frac{1}{2}$	$\frac{18}{2} = 9$
$\frac{5}{2}$	$\frac{30}{2} = 15$

2.

Rule: Multiply by 3

Input	Output
$\frac{1}{7}$	$\frac{3}{7}$
$\frac{4}{5}$	$\frac{12}{5} = 2\frac{2}{5}$
$\frac{3}{3}$	$\frac{9}{3} = 3$
$\frac{7}{3}$	$\frac{21}{3} = 7$
$\frac{5}{8}$	$\frac{15}{8} = 1\frac{7}{8}$

3.

Rule: Multiply by  $\frac{2}{9}$

Input	Output
27	$\frac{54}{9} = 6$
9	$\frac{18}{9} = 2$
3	$\frac{6}{9} = \frac{2}{3}$
7	$\frac{14}{9} = 1\frac{6}{9} = 1\frac{2}{3}$
10	$\frac{20}{9} = 2\frac{2}{9}$

4.

Rule: Multiply by  $\frac{1}{5}$

Input	Output
25	5
20	4
15	3
10	2
5	1

### Student Activity Book

#### Family Recipe (SAB p. 421) Homework

Recipe and ingredient amounts will vary.

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