# **Math 6 B Unit Test Guide**

## Multiply and Divide Fractions Unit Test

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| **Item** | **Lesson Coverage** | **Objective** | **Lesson Page** | **Assessment Item** |
| 1 | Lesson 1: Multiply Whole Numbers and Fractions | In this section, you will multiply a whole number and a fraction to find the product. | All | Multiply Write the answer in simplest form.  Answer: |
| 2 | Lesson 1: Multiply Whole Numbers and Fractions | In this section, you will multiply a whole number and a fraction to find the product. | All | Multiply Write the answer as a mixed number.  Answer: |
| 3 | Lesson 2: Multiply Two Fractions | In this section, you will multiply two fractions. | All | Find the product of .  Answer: |
| 4 | Lesson 2: Multiply Two Fractions | In this section, you will multiply two fractions. | All | Multiply . Write the answer in simplest form.  Answer: |
| 5 | Lesson 3: Multiply Fractions and Mixed Numbers | In this section, you will multiply fractions and mixed numbers. | All | Multiply . Write the answer in simplest form.  Answer: |
| 6 | Lesson 3: Multiply Fractions and Mixed Numbers | In this section, you will multiply fractions and mixed numbers. | All | Multiply . Convert the product to a mixed number.  Answer: |
| 7 | Lesson 4: Multiply Fractions to Solve Problems | In this section, you will solve real-world problems involving health literacy by multiplying fractions. | All | In a survey of teenagers, responded that they got regular exercise, and of those said that walking was their main form of exercise. What fraction of the teenagers mainly exercise by walking?  Answer: |
| 8 | Lesson 4: Multiply Fractions to Solve Problems | In this section, you will solve real-world problems involving health literacy by multiplying fractions. | All | Clarissa cycled at miles per hour for hours. How far did she travel?  Answer: miles |
| 9 | Lesson 7: Quotients of Fractions | In this section, you will compute the quotient in problems with fractions. | p. 1-6 | Compute: . Simplify the answer if possible.  Answer: |
| 10 | Lesson 7: Quotients of Fractions | In this section, you will compute the quotient in problems with fractions. | p. 7-13 | Sam has feet of cord to make bracelets. Each bracelet needs foot of cord. How many bracelets can he make?  Answer: 6 |
| 11 | Lesson 7: Quotients of Fractions | In this section, you will interpret the quotient after dividing fractions. | p. 7-13 | Andre is cutting fence boards from a large piece of wood yards long. Each board needs to be yard. How many whole, equal-sized boards can he cut from this piece of wood?  Answer: 12 |
| 12 | Lesson 8: Divide Fractions and Whole Numbers | In this section, you will determine the quotient of a fraction and a whole number. | All | What is the quotient of ? Simplify your answer if needed.  Answer: |
| 13 | Lesson 8: Divide Fractions and Whole Numbers | In this section, you will determine the quotient of a fraction and a whole number. | All | Mallory wants to run 24 miles this month. If she can run of a mile each day she runs, how many days will it take her to run those 24 miles?  Answer: 32 days |
| 14 | Lesson 9: Divide Fractions to Solve Problems | In this section, you will solve word problems that involve dividing fractions by fractions. | All | Reggie is making doll clothes for his little sister. He has 3 yards of fabric. If each dress uses yard of fabric, how many dresses can he make?  Answer: 8 dresses |
| 15 | Lesson 9: Divide Fractions to Solve Problems | In this section, you will solve word problems that involve dividing fractions by fractions. | All | Jessie was given the problem to solve. Jessie’s work looks like this:    Jessie’s answer is incorrect. Answer the following questions about Jessie’s work.   1. Find and describe Jessie’s error. 2. What is the correct answer?   Answer:   1. The student should include identifying the error Jessie made: the reciprocal of the second fraction was not found. Jessie should have found the reciprocal of , which is , before multiplying the fractions. 2. The correct answer is |