

6.

Littlefield's farm lies on a rectangular plot of land that measures  $2\frac{3}{4}$  miles in length and  $2\frac{2}{5}$  miles in width. What is its area in square miles?

$$2\frac{3}{4} \times 2\frac{2}{5}$$

$$\frac{11}{4} \times \frac{12}{5}$$

$$\frac{33}{5} = 6\frac{3}{5} \text{ sq. miles}$$

7.

Gabe needed to complete the following division:

$$1.25 \overline{)17.50}$$

Which division problem below is Gabe's problem equal to?

$125 \overline{)1750}$

$12.5 \overline{)0.175}$

$125 \overline{)175}$

$125 \overline{)1.75}$

8.

Jamal's car averages 18.4 miles per gallon. How far can he expect to drive on 9 gallons of gas?

$$\begin{array}{r} 18.4 \\ \times 9 \\ \hline 165.6 \end{array}$$

move decimal 1 place value

165.6 miles

9.

The Atlanta Motor Speedway annually hosts a 500-mile race on its 1.54-mile track. The race consists of 325 laps. Which statement below is true?

The actual race is exactly 500 miles long.

The actual race is approximately  $\frac{1}{3}$  of a mile short of 500 miles.

The actual race is  $\frac{1}{3}$  mile longer than 500 miles.

The actual race is  $\frac{1}{2}$  mile longer than 500 miles.

$$\begin{array}{r} 325 \\ \times 1.54 \\ \hline 16250 \\ 11300 \\ 32500 \\ \hline 50050 \end{array}$$

move decimal 2 place value.

$$\begin{array}{r} 11300 \\ 16250 \\ 32500 \\ \hline 50050 \end{array}$$

500.50 miles

Unit 6 Study Guide

Multiplying and Rational Numbers

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

Please show all work.

1.

Fill in the blanks to find the quotient  $\frac{5}{8} \div \frac{3}{4}$ . Give the quotient as a fraction in simplest form.

A

B

2.

Find the value of each expression. Enter fractions in simplest form when necessary.

$$0.58 \cdot 7.4 = \text{  A }$$

$$2.8 \div 0.16 = \text{  B }$$

$$\frac{2}{3} \cdot \frac{3}{8} = \frac{\text{  C }}{12}$$

$$\frac{2}{5} \div 1\frac{4}{5} = \frac{7}{\text{  D }}$$