

# Multiplying and Dividing Fractions Packet

## Multiplying Fractions

Multiply. Write the answer in simplest form.

1.  $\frac{1}{6} \times \frac{5}{8}$

2.  $\frac{7}{9} \times 3$

3.  $\frac{8}{9} \times \frac{3}{5}$

4.  $\frac{7}{8} \times 2\frac{1}{3}$

5.  $7 \times 3\frac{9}{14}$

6.  $5\frac{5}{9} \times 2\frac{7}{10}$

7. Draw a picture to help you solve. You reserve  $\frac{2}{5}$  of the seats on a tour bus.

You are able to fill  $\frac{5}{8}$  of the seats you reserve. What fraction of the seats on the bus are you able to fill

## Dividing Fractions

Using what you know about reciprocal numbers, complete the statement.

1.  $\frac{3}{8} \times \underline{\hspace{2cm}} = 1$

2.  $7 \times \underline{\hspace{2cm}} = 1$

3.  $3 \div \underline{\hspace{2cm}} = 36$

4.  $\frac{4}{9} \div \underline{\hspace{2cm}} = 12$

**Evaluate the expression.**

5.  $\frac{1}{3} \div \frac{1}{6}$

6.  $\frac{3}{8} \div \frac{5}{8}$

7.  $6 \div \frac{2}{5}$

8.  $\frac{4}{9} \div \frac{2}{3} \div \frac{5}{6}$

9.  $\frac{1}{3} + \frac{4}{7} \div \frac{3}{10}$

10.  $\frac{7}{8} \cdot \frac{4}{5} \div \frac{7}{20}$

11. In a jewelry store, rings make up  $\frac{5}{9}$  of the inventory. Earrings make up  $\frac{4}{15}$  of the inventory. How many times greater is the ring inventory than the earring inventory?

**Review**

**Estimate the product or quotient.**

1.  $91 \times 17$

2.  $57 \times 29$

3.  $83 \div 18$

4.  $204 \div 9$

5.  $152 \div 31$

6.  $13 \times 78$

7.  $32 \times 51$

8.  $651 \div 49$

9. There are 546 people attending a charity event. You are baking cookies to give away. Each batch makes 48 cookies. Estimate the number of batches you need to make so that each person gets one cookie.

Find the product or quotient.

10. 
$$\begin{array}{r} 351 \\ \times 15 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 187 \\ \times 27 \\ \hline \end{array}$$

12.  $9 \overline{)333}$

13.  $3 \overline{)474}$

14. A bleacher row can seat 14 people. The bleachers are filled to capacity with 1330 people at a soccer game. How many rows of bleachers does the soccer field have?

**Multiply. Use estimation to check your answer.**

1. 
$$\begin{array}{r} 0.5 \\ \times 4 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 3.8 \\ \times 6 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 2.1 \\ \times 11 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 0.8 \\ \times 0.6 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 0.003 \\ \times 0.09 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 8.91 \\ \times 1.26 \\ \hline \end{array}$$

7. You earn \$7.80 an hour working as a dog sitter. You work 12.5 hours during the weekend. How much money do you make?

8. You use a microscope to look at bacteria that is 0.0034 millimeter long. The microscope magnifies the bacteria 430 times. How long does the bacteria appear to be when you look at it through the microscope?