

Name _____ Date _____ Class _____

LESSON **Practice A**
5-7 **Multiplying Fractions**

Multiply. Write each answer in simplest form. *Use the shortcut.* □

1. $\frac{1}{2} \cdot \frac{1}{7}$

2. $\frac{1}{4} \cdot \frac{1}{4}$

3. $\frac{1}{5} \cdot \frac{1}{3}$

4. $\frac{2}{3} \cdot \frac{1}{3}$

5. $\frac{2}{3} \cdot \frac{2}{7}$

6. $\frac{1}{4} \cdot \frac{1}{5}$

7. $\frac{1}{3} \cdot \frac{2}{5}$

8. $\frac{1}{4} \cdot \frac{2}{3}$

9. $\frac{1}{3} \cdot \frac{1}{3}$

Evaluate the expression $x \cdot \frac{1}{2}$ for each value of x . Write the answer in simplest form. *Write the problem.*

10. $x = \frac{1}{2}$

11. $x = \frac{1}{3}$

12. $x = \frac{1}{4}$

13. $x = \frac{1}{5}$

14. $x = \frac{2}{3}$

15. $x = \frac{3}{4}$

16. In Mr. Sanders's class, $\frac{1}{3}$ of the students are girls. About $\frac{1}{4}$ of the girls want to join the chorus. What fraction of all the students in Mr. Sanders's class want to join the chorus?

17. A recipe for trail mix calls for $\frac{3}{4}$ pound of peanuts. Luiza only wants to make half of the recipe's servings. How many pounds of peanuts should she use?

LESSON **Practice B**
5-7 **Multiplying Fractions**

Multiply. Write each answer in simplest form. *Use the shortcut.* □

1. $\frac{1}{2} \cdot \frac{2}{5}$

2. $\frac{1}{3} \cdot \frac{7}{8}$

3. $\frac{2}{3} \cdot \frac{4}{6}$

4. $\frac{1}{4} \cdot \frac{10}{11}$

5. $\frac{3}{5} \cdot \frac{2}{3}$

6. $\frac{8}{9} \cdot \frac{3}{4}$

7. $\frac{3}{8} \cdot \frac{4}{5}$

8. $\frac{2}{7} \cdot \frac{3}{4}$

9. $\frac{1}{6} \cdot \frac{2}{3}$

Evaluate the expression $x \cdot \frac{1}{5}$ for each value of x . Write the answer in simplest form. *Write the problem.*

10. $x = \frac{3}{7}$

11. $x = \frac{5}{6}$

12. $x = \frac{2}{3}$

13. $x = \frac{10}{11}$

14. $x = \frac{5}{8}$

15. $x = \frac{4}{5}$

16. A cookie recipe calls for $\frac{2}{3}$ cup of brown sugar. Sarah is making $\frac{1}{4}$ of the recipe. How much brown sugar will she need?

17. Nancy spent $\frac{7}{8}$ hour working out at the gym. She spent $\frac{5}{7}$ of that time lifting weights. What fraction of an hour did she spend lifting weights?

LESSON
5-7

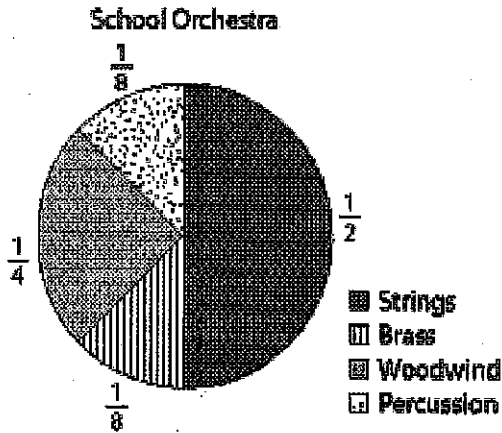
Problem Solving

Multiplying Fractions

Use the circle graph to answer the questions. Write each answer in simplest form.

1. Of the students playing stringed instruments, $\frac{3}{4}$ play the violin. What fraction of the whole orchestra is violin players? *Show work.*

2. Of the students playing woodwind instruments, $\frac{1}{2}$ play the clarinet. What fraction of the whole orchestra is clarinet players? *Show work.*



Circle the letter of the correct answer.

3. Two-thirds of the students who play a percussion instrument are boys. What fraction of the musicians in the orchestra is boys who play percussion? *Show work.*

- A $\frac{1}{24}$ of the orchestra
- B $\frac{1}{12}$ of the orchestra
- C $\frac{1}{4}$ of the orchestra
- D $\frac{2}{3}$ of the orchestra

4. The brass section is evenly divided into horns, trumpets, trombones, and tubas. What fraction of the whole orchestra do players of each of those brass instruments make up? *Show work.*

- F $\frac{1}{32}$ of the orchestra
- G $\frac{1}{8}$ of the orchestra
- H $\frac{1}{4}$ of the orchestra
- J $\frac{1}{2}$ of the orchestra

5. There are 40 students in the orchestra. How many students play either percussion or brass instruments? *Show work.*

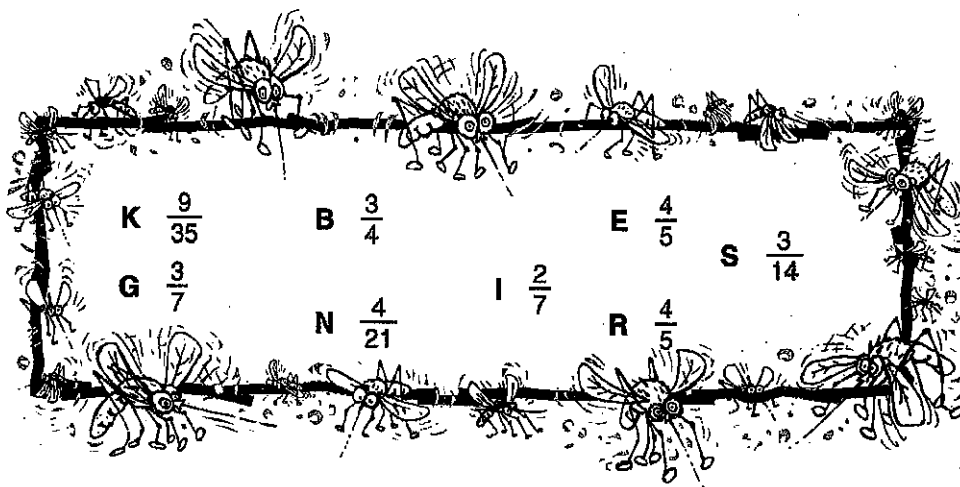
- A 5 students
- B 10 students
- C 8 students
- D 16 students

6. If 2 more violinists join the orchestra, what fraction of all the musicians would play a stringed instrument? *Show work.*

- F $\frac{11}{21}$
- G $\frac{11}{20}$
- H $\frac{1}{20}$
- J $\frac{1}{26}$

LESSON **5-7** **Puzzles, Twisters & Teasers**
Itchy Multiplication

Solve each problem and find the answer in the box. Place the letter corresponding to the answer in the blanks to answer the riddle.



Find the value of each expression if $n = \frac{3}{7}$.

- show work {
1. The value of $\frac{4}{9}n$ _____
 2. The value of $\frac{2}{3}n$ _____
 3. The value of $\frac{3}{5}n$ _____
 4. The value of $\frac{1}{2}n$ _____

What is a mosquito's favorite sport? $\frac{4}{3}$ $\frac{2}{1}$ DIVING