

# Lesson 3-4

Name \_\_\_\_\_ Hr. \_\_\_\_\_

**Multiply. Write in simplest form.** (Examples 1-4)

1.  $\frac{3}{4} \times \frac{1}{8} =$  \_\_\_\_\_

2.  $\frac{2}{5} \times \frac{2}{3} =$  \_\_\_\_\_

3.  $-9 \times \frac{1}{2} =$  \_\_\_\_\_

Show your work →

4.  $-\frac{1}{5} \times \left(-\frac{5}{6}\right) =$  \_\_\_\_\_

5.  $\frac{2}{3} \times \frac{1}{4} =$  \_\_\_\_\_

6.  $-\frac{1}{12} \times \frac{2}{5} =$  \_\_\_\_\_

7.  $\frac{2}{5} \times \frac{15}{16} =$  \_\_\_\_\_

8.  $\frac{4}{7} \times \frac{7}{8} =$  \_\_\_\_\_

9.  $\left(-1\frac{1}{2}\right) \times \frac{2}{3} =$  \_\_\_\_\_

10. The width of a vegetable garden is  $\frac{1}{3}$  times its length.

If the length of the garden is  $7\frac{3}{4}$  feet, what is the width in simplest form? (Example 5)

\_\_\_\_\_

11. One evening,  $\frac{2}{3}$  of the students in Rick's class watched television.

Of those students,  $\frac{3}{8}$  watched a reality show. Of the students that watched the show,  $\frac{1}{4}$  of them recorded the show. What fraction of

the students in Rick's class watched and recorded a reality TV show?

**Write each numerical expression. Then evaluate the expression.**

12. one half of negative five eighths

13. one third of eleven sixteenths

14. Two-thirds of the students in Levi's homeroom class study Spanish. Of these, one fourth study algebra. What fraction of the students in Levi's homeroom class study both Spanish and algebra?

(A)  $\frac{1}{6}$

(C)  $\frac{3}{6}$

(B)  $\frac{5}{12}$

(D)  $\frac{11}{12}$

15.  $-\frac{4}{9} \times \left(-\frac{1}{4}\right) =$  \_\_\_\_\_

16.  $3\frac{1}{3} \times \left(-\frac{1}{5}\right) =$  \_\_\_\_\_

17.  $\frac{1}{3} \times \frac{3}{4} =$  \_\_\_\_\_

18.  $\frac{4}{9} \times \left(-\frac{1}{8}\right) =$  \_\_\_\_\_

19. Each DVD storage case is about  $\frac{1}{5}$  inch thick. What will be the height in simplest form of 12 cases sold together?

20. Mark left  $\frac{3}{8}$  of a pizza in the refrigerator. On Friday, he ate  $\frac{1}{2}$  of what was left of the pizza. What fraction of the entire pizza did he eat on Friday?