

# MULTIPLYING FRACTIONS

EXAMPLE

Multiply. Then reduce.

$$\frac{3}{8} \times \frac{4}{5} = \frac{12}{40} = \frac{3}{10}$$

You may want to use a shortcut. When possible, divide both a numerator and a denominator by the same number.

$$\frac{\overset{1}{\cancel{3}}}{\underset{2}{\cancel{8}}} \times \frac{\overset{2}{\cancel{4}}}{5} = \frac{3}{10}$$

Multiply. Then reduce each fraction to lowest terms.

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

2.  $\frac{4}{5} \times \frac{7}{8} =$  \_\_\_\_\_

3.  $\frac{2}{3} \times \frac{6}{7} =$  \_\_\_\_\_

4.  $\frac{7}{12} \times \frac{3}{4} =$  \_\_\_\_\_

5.  $\frac{3}{8} \times \frac{8}{3} =$  \_\_\_\_\_

6.  $\frac{5}{8} \times \frac{9}{10} =$  \_\_\_\_\_

7.  $\frac{6}{7} \times \frac{1}{3} =$  \_\_\_\_\_

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

9.  $\frac{9}{10} \times \frac{1}{3} =$  \_\_\_\_\_

10.  $\frac{7}{10} \times \frac{2}{5} =$  \_\_\_\_\_

11.  $\frac{3}{7} \times \frac{8}{9} =$  \_\_\_\_\_

12.  $\frac{6}{7} \times \frac{14}{17} =$  \_\_\_\_\_

13.  $\frac{7}{28} \times \frac{4}{21} =$  \_\_\_\_\_

14.  $\frac{4}{5} \times \frac{15}{16} =$  \_\_\_\_\_

15.  $\frac{5}{6} \times \frac{18}{25} =$  \_\_\_\_\_

16.  $\frac{3}{16} \times \frac{2}{3} =$  \_\_\_\_\_

17.  $\frac{5}{9} \times \frac{6}{10} =$  \_\_\_\_\_

18.  $\frac{2}{9} \times \frac{3}{10} =$  \_\_\_\_\_

19.  $\frac{5}{8} \times \frac{4}{5} =$  \_\_\_\_\_

20.  $\frac{2}{5} \times \frac{5}{8} =$  \_\_\_\_\_

21.  $\frac{3}{8} \times \frac{4}{9} =$  \_\_\_\_\_

22.  $\frac{8}{15} \times \frac{9}{16} =$  \_\_\_\_\_

23.  $\frac{5}{7} \times \frac{14}{15} =$  \_\_\_\_\_

24.  $\frac{4}{15} \times \frac{5}{8} =$  \_\_\_\_\_

25.  $\frac{3}{5} \times \frac{10}{12} \times \frac{1}{2} =$  \_\_\_\_\_

26.  $\frac{7}{8} \times \frac{4}{7} \times \frac{3}{5} =$  \_\_\_\_\_

27.  $\frac{6}{7} \times \frac{15}{28} \times \frac{14}{27} =$  \_\_\_\_\_

28. If you took  $\frac{3}{5}$  of a cake and then took half of that, how much of the original cake would you have?

Answer: \_\_\_\_\_

29. If you took  $\frac{3}{4}$  of a pizza and then took one-sixth of that, what fractional part of the pizza would you have?

Answer: \_\_\_\_\_

# MULTIPLYING FRACTIONS BY WHOLE NUMBERS

**REMEMBER:**

Any whole number can be written as a fraction by inserting a 1 in the denominator.

**EXAMPLE** Multiply  $3 \times \frac{2}{5}$ . Write 3 as  $\frac{3}{1}$ .  $\frac{3}{1} \times \frac{2}{5} = \frac{6}{5} = 1\frac{1}{5}$

**Multiply. Be sure your answer is simplified.**

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

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

3.  $5 \times \frac{3}{4} = \underline{\hspace{2cm}}$

4.  $\frac{1}{2} \times 4 = \underline{\hspace{2cm}}$

5.  $7 \times \frac{3}{10} = \underline{\hspace{2cm}}$

6.  $\frac{3}{4} \times 4 = \underline{\hspace{2cm}}$

7.  $2 \times \frac{3}{5} = \underline{\hspace{2cm}}$

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

9.  $3 \times \frac{1}{4} = \underline{\hspace{2cm}}$

10.  $\frac{7}{10} \times 2 = \underline{\hspace{2cm}}$

11.  $6 \times \frac{4}{5} = \underline{\hspace{2cm}}$

12.  $\frac{3}{8} \times 5 = \underline{\hspace{2cm}}$

13.  $\frac{4}{5} \times 30 = \underline{\hspace{2cm}}$

14.  $50 \times \frac{7}{10} = \underline{\hspace{2cm}}$

15.  $\frac{1}{2} \times 20 = \underline{\hspace{2cm}}$

16.  $\frac{5}{16} \times 400 = \underline{\hspace{2cm}}$

17.  $\frac{7}{12} \times 9 = \underline{\hspace{2cm}}$

18.  $8 \times \frac{5}{12} = \underline{\hspace{2cm}}$

19.  $\frac{7}{12} \times 2 = \underline{\hspace{2cm}}$

20.  $3 \times \frac{3}{5} = \underline{\hspace{2cm}}$

21.  $3 \times \frac{11}{12} = \underline{\hspace{2cm}}$

22.  $\frac{11}{12} \times 2 = \underline{\hspace{2cm}}$

23.  $4 \times \frac{7}{2} = \underline{\hspace{2cm}}$

24.  $\frac{5}{8} \times 6 = \underline{\hspace{2cm}}$

25.  $\frac{5}{3} \times 7 = \underline{\hspace{2cm}}$

26.  $9 \times \frac{2}{3} = \underline{\hspace{2cm}}$

27.  $\frac{7}{20} \times 2 = \underline{\hspace{2cm}}$

28.  $3 \times \frac{7}{15} = \underline{\hspace{2cm}}$

29.  $3 \times \frac{7}{30} = \underline{\hspace{2cm}}$

30.  $\frac{7}{30} \times 2 = \underline{\hspace{2cm}}$

31.  $5 \times \frac{2}{15} = \underline{\hspace{2cm}}$

32.  $\frac{5}{2} \times 4 = \underline{\hspace{2cm}}$

33. What is two-fifths of \$20?  $\underline{\hspace{2cm}}$

34. Find seven-tenths of \$80.  $\underline{\hspace{2cm}}$

35. Find three-tenths of \$50.  $\underline{\hspace{2cm}}$

36. What is one-eighth of \$100?  $\underline{\hspace{2cm}}$

37. What is five-eighths of \$40?  $\underline{\hspace{2cm}}$

38. Find three-fifths of \$90.  $\underline{\hspace{2cm}}$

39. Find three-fourths of \$500.  $\underline{\hspace{2cm}}$

40. Find one-fourth of \$5.  $\underline{\hspace{2cm}}$