

## Multiplying Fractions

MUL 1

**Instructions:** Use the procedure you learned in the video to multiply these fractions together. You do **not** need to simplify your answers.

1  $\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$

2  $\frac{1}{2} \times \frac{7}{8} = \frac{7}{16}$

3  $\frac{2}{3} \times \frac{2}{3} = \frac{4}{9}$

4  $\frac{3}{5} \times \frac{4}{6} = \frac{12}{30}$

5  $\frac{1}{4} \times \frac{5}{2} = \frac{5}{8}$

6  $\frac{3}{3} \times \frac{8}{7} = \frac{24}{21}$

7  $\frac{6}{8} \times \frac{2}{5} = \frac{12}{40}$

8  $\frac{1}{2} \times \frac{12}{6} = \frac{12}{12} = 1$

9  $\frac{5}{6} \times \frac{5}{8} = \frac{25}{48}$

10  $\frac{7}{4} \times \frac{6}{4} = \frac{42}{16}$

11  $\frac{4}{7} \times \frac{2}{5} = \frac{8}{35}$

12  $\frac{4}{8} \times \frac{9}{8} = \frac{36}{64}$

13  $\frac{1}{7} \times \frac{1}{4} = \frac{1}{28}$

14  $\frac{4}{10} \times \frac{5}{5} = \frac{20}{50}$

15  $\frac{4}{3} \times \frac{7}{8} = \frac{28}{24}$

16  $\frac{9}{9} \times \frac{2}{9} = \frac{18}{81}$

17  $\frac{0}{4} \times \frac{3}{8} = \frac{0}{32} = 0$

18  $\frac{7}{5} \times \frac{7}{12} = \frac{49}{60}$

## Multiplying Fractions - Set 2

MUL 2

**Instructions:** Use the procedure you learned in the video to multiply these fractions. The 'dot' multiplication symbol is used in some problems. You do **not** need to simplify your answers.

$$1 \quad \frac{4}{6} \times \frac{4}{5} = \frac{16}{30}$$

$$2 \quad \frac{3}{4} \times \frac{4}{6} = \frac{12}{24}$$

$$3 \quad \frac{5}{6} \times \frac{2}{6} = \frac{10}{36}$$

$$4 \quad \frac{4}{7} \times \frac{1}{8} = \frac{4}{56}$$

$$5 \quad \frac{4}{7} \times \frac{5}{3} = \frac{20}{21}$$

$$6 \quad \frac{6}{10} \cdot \frac{9}{7} = \frac{54}{70}$$

$$7 \quad \frac{7}{6} \times \frac{5}{8} = \frac{35}{48}$$

$$8 \quad \frac{5}{3} \times \frac{3}{5} = \frac{15}{15} = 1$$

$$9 \quad \frac{3}{10} \times \frac{3}{4} = \frac{9}{40}$$

$$10 \quad \frac{9}{5} \times \frac{1}{10} = \frac{9}{50}$$

$$11 \quad \frac{1}{8} \cdot \frac{10}{5} = \frac{10}{40}$$

$$12 \quad \frac{5}{8} \cdot \frac{5}{4} = \frac{25}{32}$$

$$13 \quad \frac{2}{8} \times \frac{8}{2} = \frac{16}{16} = 1$$

$$14 \quad \frac{3}{7} \cdot \frac{4}{7} = \frac{12}{49}$$

$$15 \quad \frac{10}{11} \cdot \frac{3}{4} = \frac{30}{44}$$

$$16 \quad \frac{10}{15} \times \frac{1}{2} = \frac{10}{30}$$

$$17 \quad \frac{2}{3} \cdot \frac{9}{12} = \frac{18}{36}$$

$$18 \quad \frac{1}{10} \cdot \frac{1}{10} = \frac{1}{100}$$

## With Fractions, "of" Means "times"

MUL 3

**Instructions:** Solve these problems. Remember, the word "of" is a hint that you need to multiply the fractions together. You do **not** need to simplify your answers.

1 what is  $\frac{1}{2}$  of  $\frac{3}{4}$  =  $\frac{3}{8}$

2 find  $\frac{2}{3}$  of  $\frac{3}{5}$  =  $\frac{6}{15}$

3 what is  $\frac{1}{2}$  of  $\frac{1}{4}$  =  $\frac{1}{8}$

4 find  $\frac{1}{4}$  of  $\frac{11}{12}$  =  $\frac{11}{48}$

5 what is  $\frac{1}{2}$  of  $\frac{4}{5}$  =  $\frac{4}{10}$

6 find  $\frac{7}{8}$  of  $\frac{8}{7}$  =  $\frac{56}{56} = 1$

7 what is  $\frac{3}{4}$  of  $\frac{2}{5}$  =  $\frac{6}{20}$

8 find  $\frac{1}{5}$  of  $\frac{9}{7}$  =  $\frac{9}{35}$

9 what is  $\frac{4}{5}$  of  $\frac{7}{8}$  =  $\frac{28}{40}$

10 find  $\frac{5}{8}$  of  $\frac{1}{3}$  =  $\frac{5}{24}$

11 what is  $\frac{1}{2}$  of  $\frac{3}{10}$  =  $\frac{3}{20}$

12 find  $\frac{1}{10}$  of  $\frac{3}{7}$  =  $\frac{3}{70}$

13 what is  $\frac{3}{4}$  of  $\frac{3}{4}$  =  $\frac{9}{16}$

14 find  $\frac{2}{6}$  of  $\frac{1}{8}$  =  $\frac{2}{48}$

15 what is  $\frac{6}{10}$  of  $\frac{4}{5}$  =  $\frac{24}{50}$

16 find  $\frac{5}{6}$  of  $\frac{3}{4}$  =  $\frac{15}{24}$

## Multiplying Three or More Fractions

MUL 4

**Instructions:** Use the procedure you learned in the video to multiply these fractions together. You do **not** need to simplify your answers.

$$1 \quad \frac{2}{3} \times \frac{4}{5} \times \frac{1}{3} = \frac{8}{45}$$

$$2 \quad \frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} = \frac{6}{24}$$

$$3 \quad \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{2}{3} = \frac{2}{24}$$

$$4 \quad \frac{3}{4} \times \frac{1}{2} \times \frac{3}{4} \times \frac{1}{2} = \frac{9}{64}$$

$$5 \quad \frac{2}{5} \times \frac{2}{6} \times \frac{2}{1} = \frac{8}{30}$$

$$6 \quad \frac{7}{10} \times \frac{5}{10} \times \frac{1}{2} = \frac{35}{200}$$

$$7 \quad \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{16}$$

$$8 \quad \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{81}$$

$$9 \quad \frac{1}{3} \times \frac{3}{4} \times \frac{1}{2} \times \frac{2}{2} \times \frac{5}{1} = \frac{30}{48}$$

$$10 \quad \frac{3}{4} \cdot \frac{2}{5} \cdot \frac{3}{4} = \frac{18}{80}$$

$$11 \quad \frac{5}{3} \cdot \frac{2}{3} \cdot \frac{0}{7} = \frac{0}{63} = 0$$

$$12 \quad \frac{5}{2} \times \frac{2}{7} \times \frac{1}{2} \times \frac{5}{1} = \frac{50}{28}$$

$$13 \quad \frac{3}{2} \times \frac{1}{2} \times \frac{4}{5} \times \frac{3}{5} = \frac{36}{100}$$

$$14 \quad \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{32}$$

## Multiplying a Fraction by a Whole Number

MUL 5

**Instructions:** Multiply the fraction and the whole number. You do **not** need to simplify your answers.

1  $2 \times \frac{3}{4} = \frac{6}{4}$   
*same as 2 over 1*

2  $3 \times \frac{5}{7} = \frac{15}{7}$

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

4  $\frac{5}{6} \times 5 = \frac{25}{6}$

5  $2 \times \frac{5}{12} = \frac{10}{12}$

6  $10 \times \frac{1}{3} = \frac{10}{3}$

7  $\frac{4}{5} \times 6 = \frac{24}{5}$

8  $\frac{8}{45} \times 3 = \frac{24}{45}$

9  $7 \times \frac{5}{24} = \frac{35}{24}$

10  $\frac{6}{21} \times 6 = \frac{36}{21}$

11  $\frac{2}{5} \times 2 = \frac{4}{5}$

12  $2 \times \frac{6}{11} = \frac{12}{11}$

13  $\frac{7}{32} \times 3 = \frac{21}{32}$

14  $7 \times \frac{8}{30} = \frac{56}{30}$

15  $0 \times \frac{5}{8} = \frac{0}{8} = 0$

16  $\frac{9}{99} \times 9 = \frac{81}{99}$