math Antics Worksheets

Name: _____

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Multiplying Fractions

F-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. $\frac{7}{5} \times \frac{7}{12} = \frac{49}{60}$

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Multiplying Fractions - Set 2

F-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. $\frac{4}{6} \times \frac{4}{5} = \frac{16}{30}$
2. $\frac{3}{4} \times \frac{4}{6} = \frac{12}{24}$
3. $\frac{5}{6} \times \frac{2}{6} = \frac{10}{36}$
4. $\frac{4}{7} \times \frac{1}{8} = \frac{4}{56}$
5. $\frac{4}{7} \times \frac{5}{3} = \frac{20}{21}$
6. $\frac{6}{10} \cdot \frac{9}{7} = \frac{54}{70}$
7. $\frac{7}{6} \times \frac{5}{8} = \frac{35}{48}$
8. $\frac{5}{3} \times \frac{3}{5} = \frac{15}{15} = 1$
9. $\frac{3}{10} \times \frac{3}{4} = \frac{9}{40}$
10. $\frac{9}{5} \times \frac{1}{10} = \frac{9}{50}$
11. $\frac{1}{8} \cdot \frac{10}{5} = \frac{10}{40}$
12. $\frac{5}{8} \cdot \frac{5}{4} = \frac{25}{32}$
13. $\frac{2}{8} \times \frac{8}{2} = \frac{16}{16} = 1$
14. $\frac{3}{7} \cdot \frac{4}{7} = \frac{12}{49}$
15. $\frac{10}{11} \cdot \frac{3}{4} = \frac{30}{44}$
16. $\frac{10}{15} \times \frac{1}{2} = \frac{10}{30}$
17. $\frac{2}{3} \cdot \frac{9}{12} = \frac{18}{36}$
18. $\frac{1}{10} \cdot \frac{1}{10} = \frac{1}{100}$

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With Fractions, "of" Means "times"

F-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 $\frac{3}{4}$ = $\frac{15}{24}$

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Multiplying Three or More Fractions

F-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. $\frac{2}{3} \times \frac{4}{5} \times \frac{1}{3} = \frac{8}{45}$

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

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

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

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

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

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

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

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

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

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

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

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

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

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Multiplying a Fraction by a Whole Number

F-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. $\frac{9}{99} \times 9 = \frac{81}{99}$