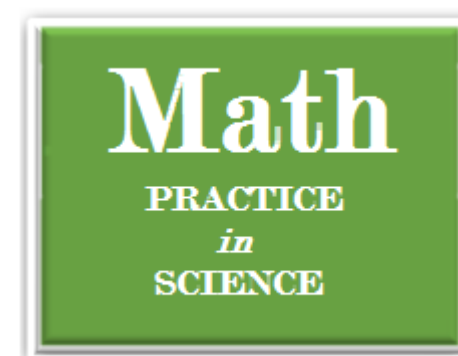


040 Math Practice

Multiplying Mixed Numbers



Before you can multiply mixed numbers, you must change them to improper fractions. Then you multiply the numerators and the denominators.

Example: Find the product of $2\frac{2}{3}$ and $3\frac{1}{4}$.

Step 1: Write the mixed numbers as improper fractions. $2\frac{2}{3} \times 3\frac{1}{4} = \frac{8}{3} \times \frac{13}{4}$

Step 2: Simplify if possible. $\frac{\cancel{8}^2}{3} \times \frac{13}{\cancel{4}_1}$

Step 3: Multiply. $\frac{\cancel{8}^2}{3} \times \frac{13}{\cancel{4}_1} = \frac{26}{3} = 8\frac{2}{3}$

Change these mixed numbers to improper fractions.

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

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

3. $2\frac{11}{12}$

4. $11\frac{1}{5}$

5. $7\frac{9}{10}$

6. $2\frac{8}{12}$

7. $8\frac{2}{13}$

8. $1\frac{8}{9}$

9. $5\frac{10}{17}$

10. $3\frac{8}{9}$

Multiply these fractions. Write your answers in lowest terms.

11. $1\frac{1}{3} \times 2\frac{1}{5} =$

12. $4\frac{3}{5} \times 1\frac{2}{3} =$

13. $3\frac{3}{5} \times 5\frac{7}{8} =$

14. $3\frac{1}{2} \times 2\frac{1}{2} =$

15. $1\frac{2}{3} \times \frac{1}{10} =$

16. $4\frac{2}{3} \times 1\frac{1}{7} =$

17. $1\frac{2}{7} \times 4\frac{2}{3} =$

18. $2\frac{3}{5} \times 10 =$

19. $4\frac{1}{3} \times \frac{3}{7} =$

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

21. $5\frac{3}{7} \times \frac{2}{19} =$

22. $3\frac{2}{9} \times 1\frac{1}{5} =$

23. $2\frac{1}{4} \times 12 =$

24. $\frac{5}{18} \times 3\frac{3}{5} =$

25. $2\frac{2}{9} \times 3\frac{3}{5} =$

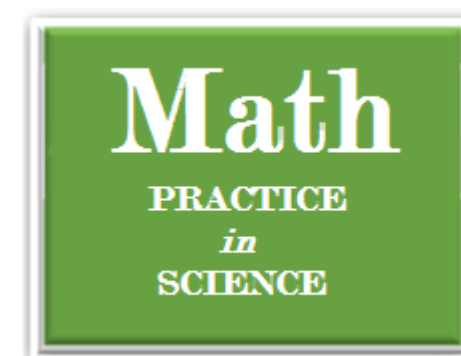
26. $1\frac{3}{5} \times 2\frac{4}{5} =$

27. $5\frac{1}{3} \times 1\frac{5}{7} =$

28. $6\frac{3}{4} \times 1\frac{10}{30} =$

041 Math Practice

Dividing Fractions



The easiest way to divide fractions is to invert the divisor and then multiply.

Turning a fraction upside down is called *inverting*.

Example: $\frac{4}{13} \div \frac{2}{5} = ?$

Step 1: Invert the divisor.

Step 2: Multiply. Write the answer in lowest terms.

Divisor
↓

$$\frac{4}{13} \div \frac{2}{5} = \frac{4}{13} \times \frac{5}{2}$$
$$\frac{4}{13} \times \frac{5}{2} = \frac{20}{26} = \frac{10}{13}$$

To divide by a fraction, invert the divisor and multiply.

Example: Find the quotient for $\frac{14}{15} \div \frac{7}{45}$

Step 1: Invert the divisor.

Step 2: Simplify if possible. Then multiply.

$$\frac{14}{15} \div \frac{7}{45} = \frac{14}{15} \times \frac{45}{7}$$
$$\frac{2}{1} \times \frac{3}{1} = \frac{6}{1} = 6$$

Divide. Write your answers in lowest terms.

1. $\frac{10}{12} \div \frac{6}{7} =$

2. $\frac{3}{10} \div \frac{6}{5} =$

3. $\frac{5}{6} \div \frac{10}{11} =$

4. $\frac{7}{8} \div \frac{13}{16} =$

5. $\frac{12}{14} \div \frac{3}{4} =$

6. $\frac{4}{5} \div \frac{6}{5} =$

7. $\frac{6}{7} \div \frac{8}{10} =$

8. $\frac{5}{9} \div \frac{15}{18} =$

9. $\frac{11}{12} \div \frac{10}{12} =$

10. $\frac{2}{15} \div \frac{4}{5} =$

11. $\frac{20}{21} \div \frac{10}{7} =$

12. $\frac{6}{10} \div \frac{26}{30} =$

13. $\frac{10}{17} \div \frac{15}{34} =$

14. $\frac{3}{11} \div \frac{7}{8} =$

15. $\frac{11}{20} \div \frac{33}{32} =$

16. $\frac{16}{12} \div \frac{36}{30} =$

17. $\frac{2}{11} \div \frac{11}{22} =$

18. $\frac{3}{14} \div \frac{1}{16} =$

19. $\frac{13}{20} \div \frac{13}{20} =$

20. $\frac{14}{19} \div \frac{16}{11} =$