

Division of a Fraction by Another Fraction

A. Fill in the Blanks

1. To divide a fraction by another fraction, you multiply the first fraction by the _____ of the second fraction.
2. The reciprocal of 95_{59} is _____.
3. Before dividing mixed numbers, you must first convert them into _____ fractions.
4. The problem $78 \div 23_{87 \div 32}$ is equivalent to the multiplication problem _____.
5. Another name for the reciprocal is the multiplicative _____.

B. Match the Following;

Column A (Problem)	Column B (Multiplication)
1. $45 \div 23_{54 \div 32}$	A. $114 \times 15_{411 \times 51}$
2. $234 \div 52_{43 \div 5}$	B. $45 \times 32_{54 \times 23}$
3. $79 \div 103_{97 \div 310}$	C. $52 \times 31_{25 \times 13}$
4. $212 \div 132_{21 \div 31}$	D. $79 \times 310_{97 \times 103}$

C. Practice Problems

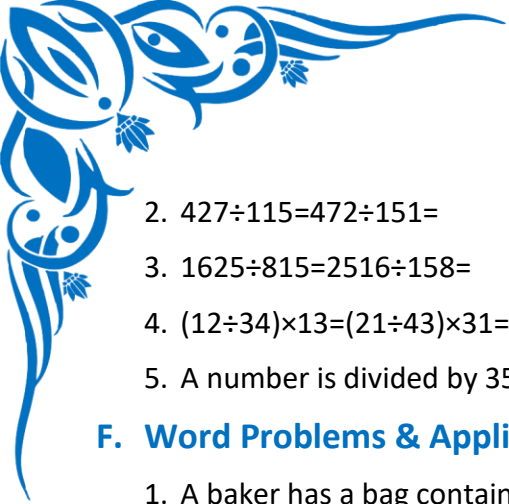
1. $58 \div 34 = 85 \div 43 =$
2. $710 \div 25 = 107 \div 52 =$
3. $89 \div 23 = 98 \div 32 =$
4. $45 \div 815 = 54 \div 158 =$
5. $73 \div 29 = 37 \div 92 =$ (Improper Fraction)

D. Warm-up Questions

1. $12 \div 14 = 21 \div 41 =$
2. $25 \div 15 = 52 \div 51 =$
3. $34 \div 12 = 43 \div 21 =$
4. $59 \div 23 = 95 \div 32 =$
5. $13 \div 34 = 31 \div 43 =$

E. Challenge Questions

1. $313 \div 212 = 331 \div 221 =$



2. $427 \div 115 = 472 \div 151 =$
3. $1625 \div 815 = 2516 \div 158 =$
4. $(12 \div 34) \times 13 = (21 \div 43) \times 31 =$
5. A number is divided by 3553. The result is 212221. What is the number?

F. Word Problems & Application

1. A baker has a bag containing 4124_{21} cups of flour. If a recipe for one batch of cookies requires 3443 of a cup of flour, how many full batches of cookies can the baker make?
2. A ribbon is 5135_{31} meters long. How many pieces of ribbon, each 23_{32} of a meter long, can be cut from it?
3. The area of a rectangular garden is 1516_{1615} square meters. If its width is 34_{43} of a meter, what is its length? (Hint: Area = Length \times Width)
4. Leo ran a total of 6346_{43} miles over several days. If he ran 1181_{81} miles each day, how many days did he run?
5. How many 38_{83} -pound servings of trail mix can be made from a large 66-pound bag?

G. True or False

1. To solve $56 \div 13_{65 \div 31}$, you calculate $65 \times 13_{56 \times 31}$.
2. The reciprocal of the whole number 7 is 71_{17} .
3. When you divide 10 by a proper fraction like 12_{21} , the answer will be smaller than 10.
4. $212 \div 112 = 22_{21} \div 1_{21} = 2$.
5. To divide fractions, you must first find a common denominator.