

Some Problems Involving Fractions

A. Fill in the Blanks

1. To divide one fraction by another, you multiply the first fraction by the _____ of the second fraction.
2. Before adding or subtracting fractions with different denominators, you must find a _____.
3. In the fraction $\frac{7}{11}$, the number 7 is called the _____.
4. The product of a fraction and its reciprocal is always _____.
5. In word problems, the word "of" usually indicates the operation of _____.

B. Match the Following;

Column A (Type of Triangle)	Column B (Property))
1. The total of $\frac{1}{2}$ and $\frac{1}{4}$	A. Subtraction (−)
2. How much is left after taking $\frac{1}{3}$ away?	B. Division (÷)
3. $\frac{3}{4}$ of the students	C. Addition (+)
4. Split $\frac{1}{2}$ of a pizza among 3 people	D. Multiplication (×)
5. The difference between $\frac{7}{8}$ and $\frac{1}{2}$	

C. Practice Problems

1. $\frac{2}{3} + \frac{1}{4} =$

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

2. $\frac{7}{8} - \frac{1}{2} =$

5. $2\frac{1}{2} + 1\frac{1}{3} =$

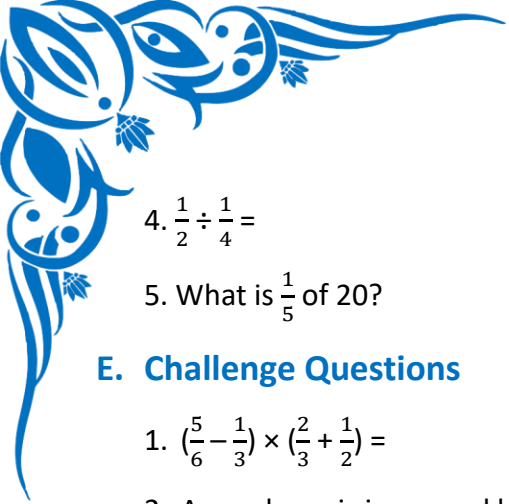
3. $\frac{3}{5} \times \frac{10}{12} =$

D. Warm-up Questions

1. $\frac{1}{7} + \frac{4}{7} =$

2. $\frac{5}{8} - \frac{2}{8} =$

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



4. $\frac{1}{2} \div \frac{1}{4} =$

5. What is $\frac{1}{5}$ of 20?

E. Challenge Questions

1. $(\frac{5}{6} - \frac{1}{3}) \times (\frac{2}{3} + \frac{1}{2}) =$

2. A number x is increased by $\frac{1}{4}$ of itself. If the new number is 50, what was the original number x ?

3. Simplify the complex fraction: $(1 + \frac{1}{2}) / (1 - \frac{1}{4}) =$

4. Find the value of: $5 - [2\frac{1}{2} + (\frac{3}{4} \div \frac{1}{2})] =$

5. What fraction is exactly halfway between $\frac{1}{5}$ and $\frac{3}{4}$?

F. Word Problems & Application

1. A recipe for a batch of cookies requires $1\frac{3}{4}$ cups of flour. If you want to make $2\frac{1}{2}$ batches, how much flour will you need?

2. Leo spent $\frac{1}{3}$ of his monthly allowance on a video game and $\frac{1}{5}$ on snacks. What fraction of his allowance does he have left?

3. A rectangular park is $\frac{3}{4}$ km long and $\frac{2}{5}$ km wide. What is the area of the park in square kilometers?

4. Samantha has a ribbon that is $5\frac{1}{4}$ meters long. She needs to cut it into smaller pieces that are each $\frac{3}{4}$ meter long. How many full pieces can she cut from the ribbon?

5. On a school trip, $\frac{3}{5}$ of the students are girls. If there are 75 students on the trip, how many are boys?

G. True or False

1. $\frac{1}{3} + \frac{1}{3} = \frac{2}{6}$

2. To multiply fractions, you must first find a common denominator.

3. The fraction $\frac{5}{4}$ is an example of an improper fraction.

4. $2\frac{1}{2} \div \frac{1}{2}$ is equal to 5.

5. $\frac{1}{4}$ is greater than $\frac{1}{3}$.
