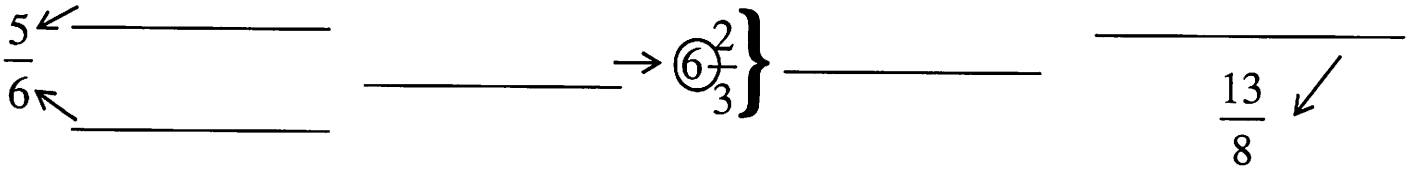


# Fractions Toolbox



## Simplify the Fraction into Lowest Terms

$$\frac{18}{24}$$

1. Find GCF of numerator and denominator.
2. Divide both the numerator and denominator by the GCF.

## Change the Mixed Number into an Improper Fraction

$$6\frac{2}{5}$$

1.  $\cdot$  the denominator and the whole number.
2.  $+$  the result to the numerator.

## Change the Improper Fraction into a Mixed Number

$$\frac{20}{6}$$

1. The number of times the denominator divides into the numerator is the whole number.
2. The remainder is the numerator over the original denominator.
3. Reduce fraction if necessary.

## Find the Product.

$$\frac{3}{16} \cdot 5$$

1.  $\# = \frac{\#}{1}$
2. Multiply across the top then multiply across the bottom.
3. Write answer in lowest terms.

## Find the Product.

$$\frac{3}{7} \cdot \frac{1}{2}$$

1. Multiply across the top then multiply across the bottom.
2. Write answer in lowest terms.

**Find the Product. Express answer in lowest terms.**

$$\frac{2}{3} \cdot \frac{3}{5}$$

1. Multiply across the top then multiply across the bottom.
2. Write answer in lowest terms.

**Find the Product. Express answer as a mixed number in lowest terms.**

$$3\frac{1}{2} \cdot \frac{3}{4}$$

1. Change mixed number to improper fraction.
2. Multiply across the top then multiply across the bottom.
3. Write answer as a mixed number.
4. Reduce fraction if necessary.

**Find the Product. Express answer as a mixed number in lowest terms.**

$$2\frac{3}{8} \cdot 6\frac{1}{3}$$

1. Change mixed number to improper fraction.
2. Multiply across the top then multiply across the bottom.
3. Write answer as a mixed number.
4. Reduce fraction if necessary.

**Find the Quotient. Express answer as a mixed number in lowest terms.**

$$\frac{5}{6} \div \frac{2}{3}$$

1. **Flip SECOND fraction and change division to MULTIPLICATION**
2. Multiply across the top then multiply across the bottom.
3. Write answer in lowest terms.

**Find the Quotient. Express answer as a mixed number in lowest terms.**

$$2\frac{3}{4} \div 1\frac{1}{8}$$

1. Change mixed number to improper fraction.
2. **Flip SECOND fraction and change division to MULTIPLICATION**
3. Multiply across the top then multiply across the bottom.
4. Write answer as a mixed number.
5. Reduce fraction if necessary.

# Fractions Toolbox

$$\frac{5}{6}$$

5 ← numerator  
6 ← denominator

Whole Number →  $6\frac{2}{3}$  } Mixed Number

Improper Fraction  
 $\frac{13}{8}$  ✓

**Simplify the Proper Fraction into Lowest Terms**

$$\frac{18}{24} \div 6 = \frac{3}{4}$$

Equivalent Fractions

$$\begin{array}{l} 3 \overline{) 18} \quad 24 \rightarrow \frac{18}{24} \\ 2 \overline{) 6} \quad 8 \rightarrow \frac{6}{8} \\ 3 \quad 4 \rightarrow \frac{3}{4} \end{array}$$

1. Find GCF of numerator and denominator.
2. Divide both the numerator and denominator by the GCF.

**Change the Mixed Number into an Improper Fraction**

$$6\frac{2}{5} = \frac{32}{5}$$

1. • the denominator and the whole number.
2. + the result to the numerator.

**Change the Improper Fraction into a Mixed Number**

$$\frac{20}{6} = 3\frac{2}{6} \div 2 = 3\frac{1}{3}$$

1. The number of times the denominator divides into the numerator is the whole number.
2. The remainder is the numerator over the original denominator.
3. Reduce fraction if necessary.

**Find the Product.**

$$\frac{3}{16} \cdot 5 = \frac{3}{16} \cdot \frac{5}{1} = \frac{15}{16}$$

1.  $\# = \frac{\#}{1}$
2. Multiply across the top then multiply across the bottom.
3. Write answer in lowest terms.

**Find the Product.**

$$\frac{3}{7} \cdot \frac{1}{2} = \frac{3}{14}$$

1. Multiply across the top then multiply across the bottom.
2. Write answer in lowest terms.

Find the Product. Express answer in lowest terms.

$$\frac{2}{3} \cdot \frac{3}{5} = \frac{6}{15} \div 3 = \frac{2}{5}$$

1. Multiply across the top then multiply across the bottom.
2. Write answer in lowest terms.

Find the Product. Express answer as a mixed number in lowest terms.

$$3\frac{1}{2} \cdot \frac{3}{4} = \frac{7}{2} \cdot \frac{3}{4} = \frac{21}{8} = 2\frac{5}{8}$$

1. Change mixed number to improper fraction.
2. Multiply across the top then multiply across the bottom.
3. Write answer as a mixed number.
4. Reduce fraction if necessary.

Find the Product. Express answer as a mixed number in lowest terms.

$$2\frac{3}{8} \cdot 6\frac{1}{3} = \frac{19}{8} \cdot \frac{19}{3} = \frac{361}{24} = 15\frac{1}{24}$$

1. Change mixed number to improper fraction.
2. Multiply across the top then multiply across the bottom.
3. Write answer as a mixed number.
4. Reduce fraction if necessary.

Find the Quotient. Express answer as a mixed number in lowest terms.

$$\frac{5}{6} \div \frac{2}{3} = \frac{5}{6} \cdot \frac{3}{2} = \frac{15}{12} = 1\frac{3}{12} \div 3 = 1\frac{1}{4}$$

1. Flip **SECOND** fraction and change division to **MULTIPLICATION**
2. Multiply across the top then multiply across the bottom.
3. Write answer in lowest terms.

Find the Quotient. Express answer as a mixed number in lowest terms.

$$2\frac{3}{4} \div 1\frac{1}{8} = \frac{11}{4} \div \frac{9}{8} = \frac{11}{4} \cdot \frac{8}{9} = \frac{22}{9} = 2\frac{4}{9}$$

1. Change mixed number to improper fraction.
2. Flip **SECOND** fraction and change division to **MULTIPLICATION**
3. Multiply across the top then multiply across the bottom.
4. Write answer as a mixed number.
5. Reduce fraction if necessary.