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## Simplifying Fractions

**Helpful**

– Evenly divide both the top and bottom of the fraction by 2, 3, 5, 7, ... etc.

Example:

**Hints**

– Continue until you can't go any further.

$$\frac{4}{12} = \frac{2}{6} = \frac{1}{3}$$

 Simplify the fractions.

1)  $\frac{22}{36}$

8)  $\frac{18}{36}$

15)  $\frac{13}{65}$

2)  $\frac{8}{10}$

9)  $\frac{20}{50}$

16)  $\frac{44}{77}$

3)  $\frac{12}{18}$

10)  $\frac{6}{54}$

17)  $\frac{21}{42}$

4)  $\frac{6}{8}$

11)  $\frac{45}{81}$

18)  $\frac{15}{36}$

5)  $\frac{13}{39}$

12)  $\frac{21}{28}$

19)  $\frac{9}{24}$

6)  $\frac{5}{20}$

13)  $\frac{35}{56}$

20)  $\frac{20}{80}$

7)  $\frac{16}{36}$

14)  $\frac{52}{64}$

21)  $\frac{25}{45}$

**Examples:**

- 1) Solve.  $(2 - 5) \times (3) =$   
 First subtract the numbers in brackets,  $2 - 5 = -3 \rightarrow (-3) \times (3) =$   
 Now use this formula: (negative)  $\times$  (positive) = negative  
 $(-3) \times (3) = -9$
- 2) Solve.  $(-12) \div (40 \div 6) =$   
 First divided 40 by 6, the numbers in brackets,  $40 \div 6 = 8$   
 $(-12) \div (8) = -12 \div 8 = -4$

**Order of Operations**

**Step-by-step guide:**

When there is more than one math operation, use PEMDAS:

- ✓ Parentheses
- ✓ Exponents
- ✓ Multiplication and Division (from left to right)
- ✓ Addition and Subtraction (from left to right)

**Examples:**

- 1) Solve.  $(5 + 7) + (3^2 + 3) =$   
 First simplify inside parentheses:  $(12) + (9 + 3) = (12) + (3) =$   
 Then:  $(12) + (3) = 4$
- 2) Solve.  $(11 \times 5) - (12 - 7) =$   
 First simplify inside parentheses:  $(11 \times 5) - (12 - 7) = (55) - (5) =$   
 Then:  $(55) - (5) = 50$

## Dividing Mixed Numbers

Use the following steps for dividing mixed numbers:

- ✓ Convert the mixed numbers into fractions.  $a \frac{c}{b} = a + \frac{c}{b} = \frac{ab + c}{b}$
- ✓ Divide fractions: Keep, Change, Flip: Keep the first fraction, change the division sign to multiplication, and flip the numerator and denominator of the second fraction. Then, solve!  $\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c} = \frac{a \times d}{b \times c}$
- ✓ Write your answer in lowest terms.
- ✓ If the answer is an improper fraction (numerator is bigger than denominator), convert it into a mixed number.

### Examples:

1) Solve.  $3 \frac{2}{3} \div 2 \frac{1}{2}$

**Solution:** Convert mixed numbers into fractions:  $3 \frac{2}{3} = \frac{3 \times 3 + 2}{3} = \frac{11}{3}$  and  $2 \frac{1}{2} = \frac{2 \times 2 + 1}{2} = \frac{5}{2}$

Keep, Change, Flip:  $\frac{11}{3} \div \frac{5}{2} = \frac{11}{3} \times \frac{2}{5} = \frac{11 \times 2}{3 \times 5} = \frac{22}{15}$ . The answer is an improper fraction. Convert it into a mixed number:  $\frac{22}{15} = 1 \frac{7}{15}$

2) Solve.  $3 \frac{4}{5} \div 1 \frac{5}{6}$

**Solution:** Convert mixed numbers to fractions, then solve:

$$3 \frac{4}{5} \div 1 \frac{5}{6} = \frac{19}{5} \div \frac{11}{6} = \frac{19}{5} \times \frac{6}{11} = \frac{114}{55} = 2 \frac{4}{55}$$

3) Solve.  $2 \frac{2}{7} \div 2 \frac{3}{5}$

**Solution:** Converting mixed numbers to fractions:  $3 \frac{4}{5} \div 1 \frac{5}{6} = \frac{16}{7} \div \frac{13}{5}$

Keep, Change, Flip:  $\frac{16}{7} \div \frac{13}{5} = \frac{16}{7} \times \frac{5}{13} = \frac{16 \times 5}{7 \times 13} = \frac{80}{91}$

### Multiplying and Dividing Fractions

<b>Helpful</b>	- Multiplying fractions: multiply the top numbers and multiply the bottom numbers.	<b>Example:</b>
	- Dividing fractions: Keep, Change, Flip	$\frac{a}{b} \div \frac{c}{d} = \frac{a \times d}{b \times c}$
<b>Hints</b>	Keep first fraction, change division sign to multiplication, and flip the numerator and denominator of the second fraction. Then, solve!	$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c} = \frac{ad}{bc}$

**Multiplying fractions. Then simplify.**

- |                                     |                                     |                                      |
|-------------------------------------|-------------------------------------|--------------------------------------|
| 1) $\frac{1}{5} \times \frac{2}{3}$ | 4) $\frac{3}{8} \times \frac{1}{3}$ | 7) $\frac{2}{3} \times \frac{3}{8}$  |
| 2) $\frac{3}{4} \times \frac{2}{3}$ | 5) $\frac{3}{5} \times \frac{2}{5}$ | 8) $\frac{1}{4} \times \frac{1}{3}$  |
| 3) $\frac{2}{5} \times \frac{3}{7}$ | 6) $\frac{7}{9} \times \frac{1}{3}$ | 9) $\frac{5}{7} \times \frac{7}{12}$ |

**Dividing fractions.**

- |                                     |                                       |                                      |
|-------------------------------------|---------------------------------------|--------------------------------------|
| 10) $\frac{2}{9} \div \frac{1}{4}$  | 13) $\frac{11}{14} \div \frac{1}{10}$ | 16) $\frac{3}{5} \div \frac{1}{5}$   |
| 11) $\frac{1}{2} \div \frac{1}{3}$  | 14) $\frac{3}{5} \div \frac{5}{9}$    | 17) $\frac{12}{21} \div \frac{3}{7}$ |
| 12) $\frac{6}{11} \div \frac{3}{4}$ | 15) $\frac{1}{2} \div \frac{1}{2}$    | 18) $\frac{5}{14} \div \frac{9}{10}$ |

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