Practice Practice Practice Simplifying Fractions

6

30

- List Factors
 6: 6,1,2,3
 30: 30,1,15,2,10,3,5,6
- Numerical Order:
 6: 1, 2, 3, 6
 30: 1, 2, 3, 5, 6, 10, 15, 30
- 3. Identify the common factors
 6: 1, 2, 3, 6
 30: 1, 2, 3, 5, 6, 10, 15, 30

- 4. Select the largest common factor 6
- 5. This is the GCF (Greatest Common Factor)
- 6. Divide the Numerator and Denominator by the GCF

Simplify :

1. 36	2. 9	3. 18	4.	7
45	24	72		14
5. 15	6. 8	7. 9	8.	6
36	12	21		12

PRACTICE MAKES GENIUS

Practice Practice Practice Simplifying Fractions

Simplify Answers:

1. 36	2. 9	3. 18	4. 7
45	24	72	14
GCF: 9	GCF: 3	GCF: 9	GCF: 7
4	3	2	1
5	8	8	2

5. 15	6. 8	7. 9	8.	6
36	12	21		12
GCF: 3	GCF: 4	GCF: 3		GCF: 6
5	2	3		1
12	3	7		2

PRACTICE MAKES GENIUS

Practice Practice Practice Adding Fractions I

$$\frac{1}{5} + \frac{7}{10} =$$

$$\frac{3}{7} + \frac{3}{8} =$$

$$\frac{4}{15} + \frac{3}{10} =$$

$$\frac{4}{9} + \frac{5}{12} =$$

Steps:

1. Find a common denominator (LCD or LCM- Least Common Denominator or Least Common Multiple)

2. Convert each fraction into their equivalent fraction with the LCM as the denominator

- 3. Add the numerators, the denominators stay the same
- 4. Simplify the answer
 - -Do they have factors in common?
 - -If yes find the GCF (Greatest Common Factor)
 - -Divide the numerator and denominator by the GCF

Practice Practice Practice Adding Fractions I

_1	7	LCD	2		9
5	10	10	10	+ =	10
3	3	LCD	24	_ 21	45
7	- 8 -	56	56	+ = 56	56
4	+=	LCD	8	+=	17
15	10	30	30	30	56
4	+ =	LCD	16	$+\frac{15}{36}=$	31
9	. 12	36	36	36	56

Steps:

1. Find a common denominator (LCD or LCM- Least Common Denominator or Least Common Multiple)

2. Convert each fraction into their equivalent fraction with the LCM as the denominator

3. Add the numerators, the denominators stay the same

4. Simplify the answer

-Do they have factors in common?

-If yes find the GCF (Greatest Common Factor)

-Divide the numerator and denominator by the GCF

Practice Practice Practice Adding Fractions II

$$\frac{2}{3} + \frac{5}{7} =$$

$$\frac{2}{5} + \frac{3}{8} =$$

$$\frac{1}{9} + \frac{2}{3} =$$

$$\frac{4}{9} + \frac{2}{6} =$$

Steps:

1. Find a common denominator (LCD or LCM- Least Common Denominator or Least Common Multiple)

- 2. Convert each fraction into their equivalent fraction with the LCM as the denominator
- 3. Add the numerators, the denominators stay the same
- 4. Simplify the answer
 - -Do they have factors in common?
 - -If yes find the GCF (Greatest Common Factor)
 - -Divide the numerator and denominator by the GCF

Practice Practice Practice Adding Fractions II 🥖

2	$+\frac{5}{7}=$	LCD	14	+ $\frac{15}{21}$ =	29	: 1 -
3	7	21	21	21	21	1 21
2	$+\frac{3}{8}=$	LCD	16	_ 15 _	31	
5	8	40	40	+ = 40	40	
1	2	LCD	1	6	7	
<u>1</u> 9	$+\frac{2}{3}=$	9	9	+	9	
4	2	LCD	8	6	14	7
<u>4</u> 9	$+\frac{2}{6}=$	18	18	$+\frac{6}{18}=$	18	9

Steps:

1. Find a common denominator (LCD or LCM- Least Common Denominator or Least Common Multiple)

2. Convert each fraction into their equivalent fraction with the LCM as the denominator

_

3. Add the numerators, the denominators stay the same

- 4. Simplify the answer
 - -Do they have factors in common?
 - -If yes find the GCF (Greatest Common Factor)
 - -Divide the numerator and denominator by the GCF

Practice Practice Practice Subtracting Fractions I

$$\frac{\frac{8}{9}}{\frac{1}{2}} - \frac{\frac{5}{6}}{\frac{1}{6}} = \frac{1}{\frac{1}{2}} + \frac{\frac{2}{5}}{\frac{1}{5}} = \frac{1}{\frac{1}{4}} - \frac{1}{\frac{1}{8}} = \frac{\frac{1}{2}}{\frac{4}{9}} + \frac{\frac{2}{6}}{\frac{2}{6}} = \frac{1}{\frac{1}{6}} = \frac{1}{\frac{1}{6}}$$

Steps:

1. Find a common denominator (LCD or LCM- Least Common Denominator or Least Common Multiple)

2. Convert each fraction into their equivalent fraction with the LCM as the denominator

- 3. Add the numerators, the denominators stay the same
- 4. Simplify the answer
 - -Do they have factors in common?
 - -If yes find the GCF (Greatest Common Factor)
 - -Divide the numerator and denominator by the GCF

Practice Practice Practice Subtracting Fractions I

8		LCD	16		1
9	6	18	18	18	18
1	2	LCD	5	4	1
2	= 5	10	10	=	10
1	1	LCD	2	1	1
4	= 8	8	8	= =	8
Л	1		วา	9	22
4	- <u> </u>	LCD	32	=	23
9	8	72	72	72	72

Steps:

1. Find a common denominator (LCD or LCM- Least Common Denominator or Least Common Multiple)

2. Convert each fraction into their equivalent fraction with the LCM as the denominator

3. Add the numerators, the denominators stay the same

4. Simplify the answer

-Do they have factors in common?

- -If yes find the GCF (Greatest Common Factor)
- -Divide the numerator and denominator by the GCF