

Answer Column:	
1 a)	$\frac{10}{21}$
b)	$\frac{2m^{10}}{5n^5}$
2 a)	$\frac{14}{9}$
b)	$-\frac{17}{4}$
3.	$\frac{7}{9}$
4.	$\frac{3}{4}$
5.	4
6.	$\frac{11}{20}$
7.	$\frac{7}{6}$
8.	$\frac{23}{40}$
9.	$\frac{31}{8}$
10.	$\frac{12}{5}$

Fractions Practice		Name: <u>Answer Key</u>
Directions: Solve the following problems in the boxes provided. Then, write answers in column. SHOW ALL WORK!		Period: _____
1. Simplify	2. Change to an Improper Fraction and Simplify	
a) $\frac{20 \div 2}{42 \div 2} = \frac{10}{21}$	a) $\frac{+5}{1 \cdot 9} = \frac{14}{9}$	
b) $\frac{4m^{20}n^{30}}{10m^{10}n^{35}} = \frac{2m^{20-10}}{5n^{35-30}} = \frac{2m^{10}}{5n^5}$	b) $\frac{+2}{8} = -\frac{34 \div 2}{8 \div 2} = -\frac{17}{4}$	
3. Add & Simplify	4. Subtract & Simplify	
$\frac{3}{9} + \frac{4}{9} = \frac{3+4}{9} = \frac{7}{9}$	$\frac{7}{8} - \frac{1}{8} = \frac{7-1}{8} = \frac{6}{8} = \frac{6 \div 2}{8 \div 2} = \frac{3}{4}$	
5. Add & Simplify	6. Subtract & Simplify	
$\frac{11}{5} + \frac{9}{5} = \frac{11+9}{5} = \frac{20}{5} = 4$	$\frac{3}{4} - \frac{1}{5} = \frac{5 \cdot 3}{5 \cdot 4} - \frac{1 \cdot 4}{5 \cdot 4} = \frac{15}{20} - \frac{4}{20} = \frac{11}{20}$	
7. Add & Simplify	8. Subtract & Simplify	
$\frac{5}{6} + \frac{2}{6} = \frac{5+2}{6} = \frac{7}{6}$	$\frac{11}{8} - \frac{4}{5} = \frac{55}{40} - \frac{32}{40} = \frac{23}{40}$	
9. Add & Simplify	10. Add & Simplify	
$\frac{17}{8} + \frac{14}{8} = \frac{17+14}{8} = \frac{31}{8}$	$\frac{19}{5} - \frac{7}{5} = \frac{19-7}{5} = \frac{12}{5}$	

Honors: Solve & Simplify

$$\frac{1}{4} + \frac{1}{6} - \frac{4}{12}$$

$$\frac{3}{12} + \frac{2}{12} - \frac{4}{12} = \frac{5-4}{12} = \frac{1}{12}$$

$$\frac{1}{12}$$