



## UNIT 7 APPLY THE FOUR BASIC OPERATIONS TO FRACTIONS

### Exercise 7.1 Classwork or Homework

	Add and subtract the following proper fractions. No calculators. Show all steps. When the multiplications become very large, you can do them with your calculator but keep on showing your steps.	
1. $\frac{1}{3} + \frac{1}{2}$	2. $\frac{1}{2} + \frac{3}{10}$	
3. $\frac{2}{5} + \frac{2}{3}$	4. $\frac{3}{10} + \frac{3}{4}$	
5. $\frac{4}{5} + \frac{1}{2}$	6. $\frac{2}{3} + \frac{10}{12}$	
7. $\frac{9}{12} - \frac{4}{12}$	8. $\frac{2}{5} - \frac{1}{5}$	
9. $\frac{9}{11} - \frac{5}{11}$	10. $\frac{6}{8} - \frac{2}{8}$	
11. $\frac{8}{12} - \frac{2}{12}$	12. $\frac{8}{9} - \frac{6}{9}$	

### Exercise 7.2 Classwork or Homework

	Work on your own. Calculate the following mixed fractions. No calculators. Show all steps. When the multiplications become very large, you can do them with your calculator but keep on showing your steps.	
1. $6\frac{2}{5} + 5\frac{1}{4}$	2. $6\frac{1}{2} + 8\frac{4}{5}$	
3. $1\frac{6}{10} + 5\frac{2}{3}$	4. $4\frac{3}{10} + 5\frac{1}{3}$	
5. $1\frac{2}{5} + 8\frac{1}{2}$	6. $6\frac{3}{8} + 5\frac{3}{4}$	
7. $8\frac{2}{5} - 3\frac{1}{2}$	8. $8\frac{1}{2} - 2\frac{2}{5}$	
9. $8\frac{4}{5} - 2\frac{8}{10}$	10. $7\frac{1}{2} - 2\frac{1}{3}$	
11. $5\frac{3}{10} - 4\frac{4}{5}$	12. $9\frac{1}{4} - 2\frac{1}{2}$	

### Exercise 7.3 Classwork or Homework



Work on your own. Calculate the following mixed fractions. **No calculators. Show all steps.** When the multiplications become very large, you can do them with your calculator but keep on showing your steps.

Multiply the following common fractions

1.  $\frac{1}{2} \times \frac{1}{4}$

2.  $\frac{2}{4} \times \frac{1}{2}$

3.  $\frac{3}{9} \times \frac{2}{7}$

4.  $\frac{1}{2} \times \frac{2}{3}$

5.  $\frac{1}{3} \times \frac{6}{8}$

6.  $\frac{3}{7} \times \frac{2}{5}$

Multiply the following mixed fractions. **Show all steps.**

7.  $2\frac{1}{2} \times 3\frac{2}{3}$

8.  $2\frac{2}{5} \times 4\frac{5}{7}$

9.  $2\frac{1}{5} \times 3\frac{5}{8}$

10.  $3\frac{3}{10} \times 3\frac{1}{2}$

11.  $2\frac{3}{10} \times 3\frac{1}{2}$

12.  $3\frac{2}{3} \times 4\frac{3}{10}$

### Exercise 7.4 Classwork or Homework



Work on your own. Divide the following common and mixed fractions. **No calculators. Show all steps.** When the multiplications become very large, you can do them with your calculator but keep on showing your steps.

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

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

3.  $\frac{3}{9} \div \frac{2}{7}$

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

5.  $\frac{1}{3} \div \frac{6}{8}$

6.  $\frac{3}{7} \div \frac{2}{5}$

7.  $2\frac{1}{2} \div 3\frac{2}{3}$

8.  $2\frac{2}{5} \div 4\frac{5}{7}$

9.  $2\frac{1}{5} \div 3\frac{5}{8}$

10.  $3\frac{3}{10} \div 3\frac{1}{2}$

11.  $2\frac{3}{10} \div 3\frac{1}{2}$

12.  $3\frac{2}{3} \div 4\frac{3}{10}$

**Exercise 7.5 Classwork or Homework**

Work on your own. Do the following mixed exercise. **No calculators. Show all steps.**  
**When the multiplications become very large, you can do them with your calculator but keep on showing your steps.**

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

2.  $\frac{1}{5} + \frac{3}{8}$

3.  $\frac{3}{10} + \frac{2}{3}$

4.  $\frac{3}{12} + \frac{3}{5}$

5.  $\frac{4}{7} + \frac{1}{6}$

6.  $\frac{2}{3} + \frac{5}{12}$

Add the following mixed fractions. **Show all steps.**

7.  $7\frac{2}{3} + 5\frac{1}{2}$

8.  $6\frac{1}{4} + 9\frac{4}{5}$

9.  $1\frac{6}{8} + 4\frac{2}{3}$

10.  $6\frac{3}{10} + 4\frac{1}{4}$

11.  $2\frac{3}{5} + 8\frac{1}{6}$

12.  $7\frac{3}{9} + 5\frac{3}{8}$

Subtract the following fractions **Show all steps.**

19.  $\frac{8}{11} - \frac{4}{11}$

20.  $\frac{4}{5} - \frac{1}{5}$

21.  $\frac{9}{18} - \frac{5}{18}$

22.  $\frac{6}{12} - \frac{2}{12}$

23.  $\frac{6}{9} - \frac{3}{9}$

24.  $\frac{7}{10} - \frac{2}{10}$

Subtract the following mixed fractions . **Show all steps.**

25.  $9\frac{2}{6} - 3\frac{1}{2}$

26.  $4\frac{1}{2} - 2\frac{2}{5}$

27.  $5\frac{4}{5} - 2\frac{8}{9}$

28.  $10\frac{1}{2} - 2\frac{1}{2}$

29.  $6\frac{3}{8} - 5\frac{4}{5}$

30.  $8\frac{1}{4} - 3\frac{1}{2}$