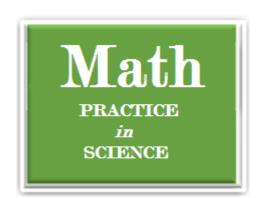
# 038 Math Practice

## **Subtraction with Renaming**



Sometimes, when you subtract with fractions, you have to rename the numbers. Sometimes you have to change whole numbers to mixed numbers. A *mixed number* is a whole number with a fraction. At other times, you have to change a mixed number to a mixed number with an improper fraction. An *improper fraction* is a fraction with a larger number in the numerator than in the denominator.

When you make these changes, keep this in mind: Each whole number can be changed into a fraction with a numerator and a denominator that are the same.

Example Subtract  $5\frac{7}{8}$  from 18.

Step 1: 
$$18 = 17 + 1 =$$
 (mixed number with an improper fraction)  $\sqrt{8}$ 

Step 2: Subtract. 
$$-5\frac{7}{8}$$

Example Subtract  $10\frac{3}{7}$  from  $15\frac{1}{7}$ .

Step 1: 
$$15\frac{1}{7} = 14 + 1 + \frac{1}{7}$$
  
=  $14 + \frac{7}{7} + \frac{1}{7} =$ 

(mixed number with an improper fraction)

Step 2: Subtract.

#### Subtract these fractions. Express your answers in lowest terms.

1. 
$$6\frac{5}{17}$$
  $-2\frac{8}{17}$ 

2. 16 
$$-4\frac{3}{5}$$

3. 
$$18\frac{1}{7}$$

$$-6\frac{5}{21}$$

4. 
$$8\frac{1}{4}$$
  $-3\frac{11}{36}$ 

5. 
$$4$$

$$-2\frac{8}{11}$$

6. 
$$19\frac{1}{8}$$

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

7. 
$$21\frac{2}{5}$$
 $-6\frac{4}{5}$ 

8. 
$$8\frac{9}{11}$$
 $-2\frac{10}{11}$ 

9. 
$$53\frac{2}{21}$$

$$-4\frac{5}{21}$$

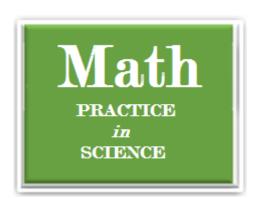
10. 
$$56\frac{2}{10}$$
 $-6\frac{4}{9}$ 

11. 
$$19\frac{2}{9}$$
 $-8\frac{3}{4}$ 

12. 15
$$-8\frac{3}{21}$$

## 039 Math Practice

### **Multiplying Fractions**



You multiply fractions by multiplying the numerators and then multiplying the denominators.

Example: 
$$\frac{5}{6} \times \frac{1}{2} = ?$$

$$\frac{5}{6} \times \frac{1}{2} = \frac{5}{12}$$
  $-$  because  $5 \times 1 = 5$  because  $6 \times 2 = 12$ 

Often, you can simplify the problem before multiplying.

Example: 
$$\frac{4}{15} \times \frac{5}{7} = ?$$

$$\frac{4}{15} \times \frac{5}{7}^{1} = ?$$

 $\frac{4}{15} \times \frac{5}{7}^{1} = ?$  Divide the 15 and 5 by the common factor of 5. Then multiply.

$$\frac{4}{3} \times \frac{1}{7} = \frac{4}{21}$$
 because  $4 \times 1 = 4$  because  $3 \times 7 = 21$ 

Multiply. Express your answers in lowest terms.

1. 
$$\frac{2}{11} \times \frac{5}{1} =$$

2. 
$$\frac{8}{13} \times \frac{26}{27} =$$

1. 
$$\frac{2}{11} \times \frac{5}{1} =$$
 2.  $\frac{8}{13} \times \frac{26}{27} =$  3.  $\frac{5}{16} \times \frac{8}{10} =$  4.  $\frac{9}{20} \times \frac{8}{9} =$ 

4. 
$$\frac{9}{20} \times \frac{8}{9} =$$

5. 
$$\frac{13}{14} \times \frac{7}{8} =$$

6. 
$$\frac{5}{6} \times \frac{3}{4} =$$

7. 
$$\frac{7}{8} \times \frac{5}{14} =$$

7. 
$$\frac{7}{8} \times \frac{5}{14} =$$
 8.  $\frac{8}{9} \times \frac{27}{32} =$ 

9. 
$$\frac{4}{17} \times \frac{17}{18} =$$

10. 
$$\frac{4}{7} \times \frac{5}{6} =$$

10. 
$$\frac{4}{7} \times \frac{5}{6} =$$
 11.  $\frac{5}{8} \times \frac{8}{13} =$ 

12. 
$$\frac{6}{7} \times \frac{4}{6} =$$

13. 
$$\frac{15}{16} \times \frac{32}{45} =$$

14. 
$$\frac{8}{14} \times \frac{7}{8} =$$

15. 
$$\frac{5}{6} \times \frac{6}{11} =$$

16. 
$$\frac{6}{13} \times \frac{9}{18} =$$

17. 
$$\frac{4}{27} \times \frac{1}{4} =$$

18. 
$$\frac{6}{28} \times \frac{7}{12} =$$

19. 
$$\frac{8}{20} \times \frac{20}{32} =$$

20. 
$$\frac{1}{16} \times \frac{8}{13} =$$

21. 
$$\frac{3}{15} \times \frac{5}{16} =$$

22. 
$$\frac{7}{24} \times \frac{8}{42} =$$

23. 
$$\frac{7}{50} \times \frac{25}{14}$$

23. 
$$\frac{7}{50} \times \frac{25}{14} =$$
 24.  $\frac{4}{27} \times \frac{9}{16} =$