

### Lesson #8: Adding and Subtracting Fractions

#### Objectives

##### Students will be able to...

- Identify the LCD and borrow from whole numbers while adding and subtracting fractions.
- Add any two mixed numbers using only a tape measure.

#### Common Core Standards

Number Sense 1.2, 1.3, & 3.1  
Cabinet Making and Wood Products Pathway 1.4  
G-MG 1, 3  
RSIT 11-12.2  
WHSST 11-12.9  
Technical Knowledge and Skills 10.2  
CTE Pathway D2.1  
Demonstration and Application 11.1

#### Materials

YouTube video <https://www.youtube.com/watch?v=t6Gz2zwmeD0>  
YouTube video <https://www.youtube.com/watch?v=J8kjXfD4xas>  
YouTube video <https://www.youtube.com/watch?v=lwqoJAa23Iw>  
Adding Standard Measurement worksheet  
Adding and Subtracting mixed numbers worksheet

#### Lesson Sequence

- Watch the *How to Add and Subtract Fractions You tube video* (4 minutes)  
<https://www.youtube.com/watch?v=t6Gz2zwmeD0>
- Complete the *Adding Standard Measurement worksheet* together as a class.  
(20 minutes)
- Watch the *How to add or subtract mixed numbers you tube video* (3 minutes)  
<https://www.youtube.com/watch?v=J8kjXfD4xas>
- Watch the *Tape Measure math YouTube video* (4 minutes)

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<https://www.youtube.com/watch?v=lwqoJAa23lw>

- Complete the *Adding and subtracting mixed numbers worksheet* together. Answer any clarifying questions as needed. (20 minutes)

### **Assessment**

Check for understanding throughout the lesson.  
Collect and grade the two worksheets.

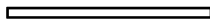
### **Accommodations/Modifications**

Multiplication Table  
One on One Support  
Peer Support  
Calculator

### Adding Standard Measurements

Directions: Use the standard side of your ruler to measure the following lines. After you have listed each measurement in the space provided (on the bold line in front of the line you measure), add the three measurements together to find the sum. Your final answer must be completely reduced to be correct.

1.



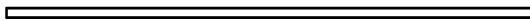
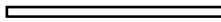
Total \_\_\_\_\_ = \_\_\_\_\_

2.



Total \_\_\_\_\_ = \_\_\_\_\_

3.



Total \_\_\_\_\_ = \_\_\_\_\_

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4.

_____	_____
_____	_____
_____	_____

Total \_\_\_\_\_ = \_\_\_\_\_

5.

_____	_____
_____	_____
_____	_____

Total \_\_\_\_\_ = \_\_\_\_\_

**Adding Standard Measurements** *Answer Key*

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

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

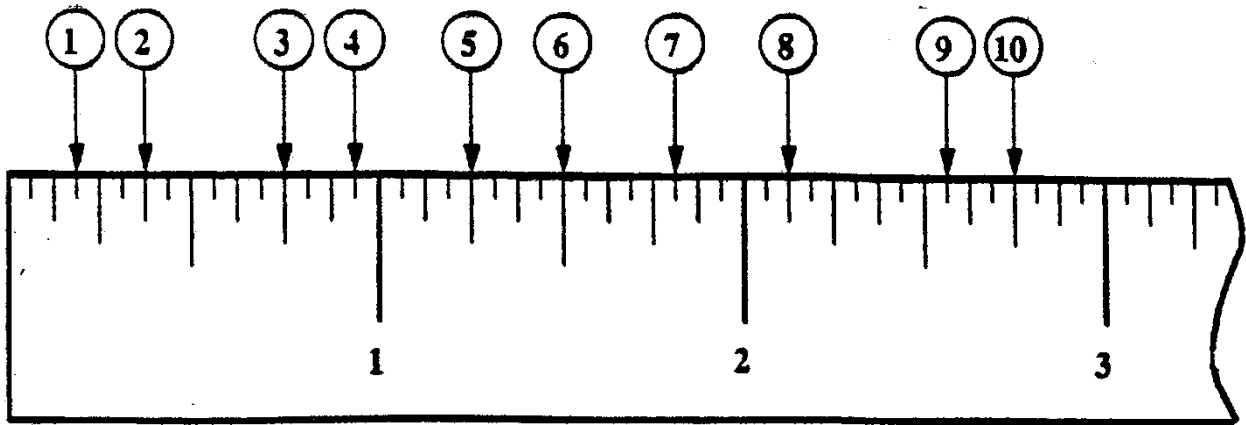
3.  $6\frac{1}{2}$

4.  $4\frac{5}{8}$

5.  $5\frac{3}{8}$

### Adding and Subtracting Mixed Numbers

Directions: Write the measurement of the corresponding number on the spaces provided below.



1.	6.
2.	7.
3.	8.
4.	9.
5.	10.

### Adding Mixed Numbers

11.  $6\frac{3}{4} + 2\frac{1}{4} =$

12.  $6\frac{1}{2} + 5\frac{3}{4} =$

13.  $21\frac{1}{2} + 1\frac{3}{4} =$

14.  $17\frac{5}{8} + 2\frac{3}{4} =$

15.  $5\frac{13}{16} + 7\frac{5}{16} =$

16.  $6\frac{3}{8} + 13\frac{5}{16} =$

### Subtracting Mixed Numbers

17.  $6\frac{3}{4} - 2\frac{1}{2} =$

18.  $6\frac{1}{2} - 5\frac{3}{16} =$

19.  $9\frac{1}{8} - 1\frac{3}{4} =$

20.  $12\frac{5}{8} - 2\frac{3}{4} =$

21.  $9\frac{13}{16} - 7\frac{5}{16} =$

22.  $7\frac{1}{8} - 5\frac{3}{4} =$

**Adding and Subtracting Mixed Numbers** *Answer Key*

1.  $\frac{3}{16}$

2.  $\frac{3}{8}$

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

4.  $\frac{15}{16}$

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

6.  $1\frac{1}{2}$

7.  $1\frac{13}{16}$

8.  $2\frac{1}{8}$

9.  $2\frac{9}{16}$

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

11. 9

12.  $11\frac{11}{16}$

13.  $23\frac{1}{4}$

14.  $20\frac{3}{8}$

15.  $13\frac{1}{8}$

16.  $19\frac{11}{16}$

17.  $4\frac{1}{4}$

18.  $1\frac{5}{16}$

19.  $7\frac{3}{8}$

20.  $9\frac{7}{8}$

21.  $2\frac{1}{2}$

22.  $1\frac{3}{8}$