

- 1** Ursula mixed  $3\frac{1}{8}$  cups of dry ingredients with  $1\frac{2}{5}$  cups of liquid ingredients.

Write the numbers that are the best estimates from the list to correctly complete the sentences.

Ursula used about \_\_\_\_\_ cups of dry ingredients and about \_\_\_\_\_ cups of liquid ingredients.  
Ursula used about \_\_\_\_\_ cups of ingredients.

$1\frac{1}{2}$	$1\frac{3}{4}$	2	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$
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- 2** Horatio sanded a dresser for  $1\frac{1}{4}$  hours. Then he stained the dresser for  $2\frac{1}{3}$  hours.

Place an X in the table to show if each sentence is true or false.

	True	False
A common denominator of the mixed numbers is 12.		
The amount of time spent sanding the dresser can be rewritten as $1\frac{3}{12}$ .		
Horatio spent $1\frac{1}{6}$ hours longer staining the dresser than sanding it.		

- 3** Ken bought  $3\frac{3}{4}$  pounds of apples at the farmers' market. Abby bought  $2\frac{1}{8}$  pounds of apples. How many pounds of apples did Ken and Abby buy?

\_\_\_\_\_ pounds

- 4** The table shows the length of each presentation being offered at a training seminar.

Presentation Lengths	
Presentation	Time (hours)
1	$4\frac{1}{2}$
2	$3\frac{3}{4}$
3	$5\frac{1}{3}$
4	$4\frac{2}{3}$

Write the letter for each fraction of an hour to show the difference in time between each pair of presentations.

Between presentations 1 and 2




Between presentations 2 and 4




Between presentations 1 and 3




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

B.  $\frac{5}{6}$  hour

C.  $\frac{11}{12}$  hour

- 5** Which expressions require the renaming of mixed numbers before subtracting?  
Write the letter for each expression in the correct box.

Requires Renaming	Does Not Require Renaming

A.  $5\frac{2}{5} - 2\frac{1}{4}$       B.  $5 - 2\frac{7}{8}$       C.  $7\frac{2}{3} - 6\frac{1}{8}$       D.  $9\frac{1}{6} - 5\frac{2}{3}$

- 6** This sequence of numbers follows a rule. What is the missing number in the sequence?

$14\frac{3}{10}$ ,  $13\frac{4}{5}$ ,  $13\frac{3}{10}$ , \_\_\_\_\_,  $12\frac{3}{10}$

- 7** Neil swam  $4\frac{2}{3}$  lengths of the pool.  
Mia swam  $6\frac{1}{2}$  lengths of the pool.  
How many more lengths of the pool did Mia swim than Neil?

- Ⓐ  $1\frac{1}{6}$   
Ⓑ  $1\frac{5}{6}$   
Ⓒ  $2\frac{1}{6}$   
Ⓓ  $2\frac{1}{2}$

- 8** Place an X in the table to show if each equation is true or false.

	True	False
$(1\frac{2}{3} + 3\frac{1}{3}) + \frac{4}{5} = (3\frac{1}{3} + 1\frac{2}{3}) + \frac{4}{5}$		
$(\frac{1}{8} + \frac{5}{6}) + \frac{1}{6} = \frac{1}{8} + (\frac{5}{6} + \frac{1}{6})$		
$\frac{5}{7} + (\frac{2}{9} + \frac{4}{7}) = \frac{5}{7} - (\frac{4}{7} + \frac{2}{9})$		

- 9** Meredith uses a rule to write this sequence of numbers.

$\frac{3}{4}$ , 2,  $3\frac{1}{4}$ ,  $4\frac{1}{2}$

What rule did Meredith use?

- Ⓐ Add  $\frac{1}{4}$ .  
 Ⓑ Add  $\frac{1}{2}$ .  
 Ⓒ Add  $1\frac{1}{4}$ .  
 Ⓓ Add  $1\frac{1}{2}$ .

- 10** It takes Evan  $6\frac{3}{4}$  hours to mow 3 lawns. It takes him  $2\frac{1}{3}$  hours to mow Mr. Gal's lawn and  $1\frac{3}{4}$  hours to mow Ms. Lee's lawn. How many hours does it take Evan to mow the third lawn?

\_\_\_\_\_ hours