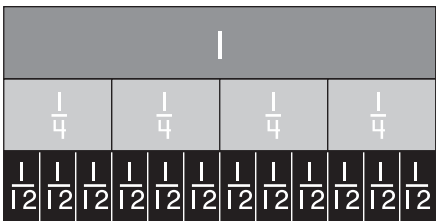
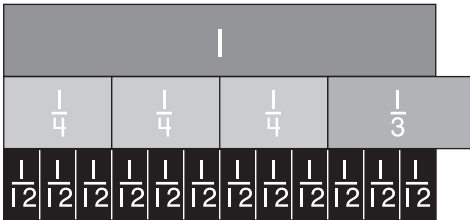
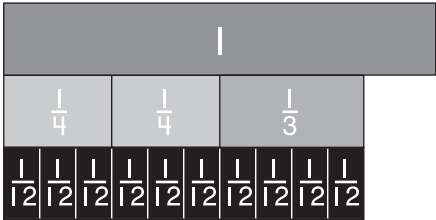
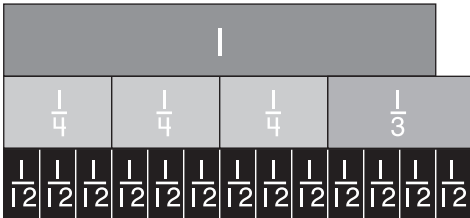


- 1 Tonya adds  $\frac{3}{4}$  and  $\frac{1}{3}$ . Which model could she use to help find the sum?

(A) 

(B) 

(C) 

(D) 

- 2 The shaded part of the diagram shows the amount of time Antonio has left from one hour of basketball practice. He will use  $\frac{2}{5}$  hour practicing his shooting and the rest of the time practicing dribbling.



1 hour

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

	True	False
To determine how much time he will have to practice dribbling, Antonio must find $1 - \frac{2}{5}$ .		
The fractions $\frac{2}{5}$ and $\frac{4}{10}$ are equivalent.		
Antonio will have $\frac{2}{5}$ hour to practice dribbling.		

- 3** Jessica bought  $\frac{1}{2}$  pound of Swiss cheese and  $\frac{5}{6}$  pound of Cheddar cheese. Which pairs of fractions are equivalent to the amounts Jessica bought?

Select **all** the correct answers.

- (A)  $\frac{5}{10}$  and  $\frac{8}{10}$   
(B)  $\frac{6}{12}$  and  $\frac{10}{12}$   
(C)  $\frac{8}{16}$  and  $\frac{10}{16}$   
(D)  $\frac{10}{18}$  and  $\frac{15}{18}$   
(E)  $\frac{12}{24}$  and  $\frac{20}{24}$

- 4** On the playground,  $\frac{1}{6}$  of the students are on the jungle gym and  $\frac{1}{4}$  of the students are playing kickball. What fraction of all the students on the playground are on the jungle gym or playing kickball?

\_\_\_\_\_ of the students

- 5** Which estimate is the BEST for the sum of  $\frac{5}{6}$  and  $\frac{3}{8}$ ?

- (A) 3  
(B) 2  
(C)  $1\frac{1}{2}$   
(D)  $\frac{1}{2}$

- 6** Nathan spent  $\frac{1}{5}$  of his allowance on a movie ticket and  $\frac{1}{4}$  of his allowance on a snack.

**Part A**

What are the fractions of Nathan's allowance rewritten with a common denominator?

$$\frac{1}{5} = \frac{\boxed{\phantom{000}}}{20}$$

$$\frac{1}{4} = \underline{\hspace{2cm}}$$

**Part B**

How much of his allowance did Nathan spend?

\_\_\_\_\_

**Part C**

How much more of his allowance did Nathan spend on the snack than on the movie ticket?

\_\_\_\_\_

- 7** Pia has  $\frac{9}{10}$  meter of ribbon. She cuts off  $\frac{3}{5}$  meter of the ribbon to use as a bow on a box. How much ribbon does Pia have left?

- Ⓐ  $\frac{1}{2}$  meter  
Ⓑ  $\frac{3}{10}$  meter  
Ⓒ  $\frac{5}{6}$  meter  
Ⓓ  $\frac{6}{15}$  meter

- 8** Chen wants to find  $\frac{11}{12} - \frac{5}{8}$ . He estimates the difference is  $\frac{1}{2}$ . Is Chen's estimate reasonable?

Circle the words to correctly complete the sentence.

The estimate is 

reasonable
not reasonable

 because Chen used

the closest benchmark fractions
benchmark fractions that are
not close

 to subtract.

- 9** Gail made  $\frac{7}{8}$  quart of lemonade. Her sister drank  $\frac{1}{4}$  quart of the lemonade. How much lemonade is left?

\_\_\_\_\_ quart

- 10** Anton uses  $\frac{2}{3}$  cup of grapes and  $\frac{1}{2}$  cup of strawberries. What is the total amount of fruit Anton uses?

- Ⓐ  $\frac{2}{6}$  cup
- Ⓑ  $\frac{4}{6}$  cup
- Ⓒ 1 cup
- Ⓓ  $1\frac{1}{6}$  cups

- 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**

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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?

$14\frac{3}{10}, 13\frac{4}{5}, 13\frac{3}{10}, \underline{\hspace{2cm}}, 12\frac{3}{10}$

- 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