Name _____ Date _____

Find Fraction Sums 1

Fraction sums are shown with fraction circles in the first column of the chart below. Use fraction circle pieces to show the problem. Find the sum using pieces of only one color. Draw a picture to show how you solved it in the second column. Write the color you used in the blank. Write two number sentences for the sum in the third column. The first row is an example.

Fraction Sum	Using One Color	Number Sentences
Example	Color: Black	$\frac{1}{4} + \frac{1}{3} = \frac{7}{12}$ $\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$
1.	Color: _____	
2.	Color: _____	
3.	Color: _____	
4.	Color: _____	

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Name _____ Date _____

Fraction Sum	Using One Color	Number Sentences
5.	Color: _____	
6.	Color: _____	
7.	Color: _____	
8.	Color: _____	
9.	Color: _____	
10.	Color: _____	

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Student Activity Book

Find Fraction Sums 1 (SAB pp. 95–97) Questions 1–12

1. blue; $\frac{1}{8} + \frac{1}{4} + \frac{1}{4} = \frac{5}{8}$; $\frac{1}{8} + \frac{2}{8} + \frac{2}{8} = \frac{5}{8}$
2. aqua; $\frac{1}{2} + \frac{1}{6} = \frac{4}{6}$; $\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$
3. aqua; $\frac{1}{3} + \frac{1}{6} = \frac{3}{6}$; $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$
4. black; $\frac{1}{4} + \frac{1}{4} + \frac{1}{3} = \frac{10}{12}$; $\frac{3}{12} + \frac{3}{12} + \frac{4}{12} = \frac{10}{12}$
   Note: students may see that $\frac{2}{4}$ is the same as $\frac{1}{2}$ and then reason that they can trade for sixths (orange pieces) $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$. This is a correct solution, even though it does not comply with our rule that trades only be made when the new pieces cover the individual pieces exactly.
5. purple; $\frac{3}{5} + \frac{1}{10} = \frac{7}{10}$; $\frac{6}{10} + \frac{1}{10} = \frac{7}{10}$
6. black; $\frac{1}{4} + \frac{5}{12} = \frac{8}{12}$; $\frac{3}{12} + \frac{5}{12} = \frac{8}{12}$
7. black; $\frac{1}{12} + \frac{1}{6} + \frac{1}{3} + \frac{1}{6} = \frac{9}{12}$; $\frac{1}{12} + \frac{2}{12} + \frac{4}{12} + \frac{2}{12} = \frac{9}{12}$
8. black; $\frac{1}{2} + \frac{1}{12} + \frac{1}{4} + \frac{1}{12} = \frac{11}{12}$; $\frac{6}{12} + \frac{1}{12} + \frac{3}{12} + \frac{1}{12} = \frac{11}{12}$
9. black; $\frac{1}{4} + \frac{1}{6} = \frac{5}{12}$; $\frac{3}{12} + \frac{2}{12} = \frac{5}{12}$
10. black; $\frac{1}{4} + \frac{1}{3} + \frac{1}{3} + \frac{1}{12} = \frac{12}{12}$ or 1;
    $\frac{3}{12} + \frac{4}{12} + \frac{4}{12} + \frac{1}{12} = \frac{12}{12}$ or 1; $\frac{3}{12} + \frac{8}{12} + \frac{1}{12} = \frac{12}{12}$ or 1
11. $\frac{1}{6} + \frac{2}{6} = \frac{3}{6}$
12. $\frac{3}{12} + \frac{2}{12} = \frac{5}{12}$

Name _____ Date _____

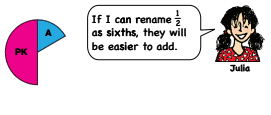
Julia solved Question 2 this way.

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

$\frac{1}{2} \times \frac{?}{?} = \frac{?}{6}$

$\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$

$\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$



11. Use Julia's way to solve Question 3.

$\frac{1}{6} + \frac{1}{3}$

$\frac{1}{3} \times \frac{\square}{\square} = \frac{\square}{6}$

$\frac{1}{6} + \frac{\square}{6} = __$

12. Use Julia's way to help Romesh solve Question 9.

$\frac{1}{4} + \frac{1}{6}$

$\frac{1}{4} \times \frac{?}{?} = \frac{?}{6}$ NO $\frac{1}{4} \times \frac{\square}{\square} = \frac{\square}{12}$

$\frac{1}{6} \times \frac{?}{?} = \frac{?}{4}$ NO $\frac{1}{6} \times \frac{\square}{\square} = \frac{\square}{12}$

$\frac{\square}{12} + \frac{\square}{12} = __$

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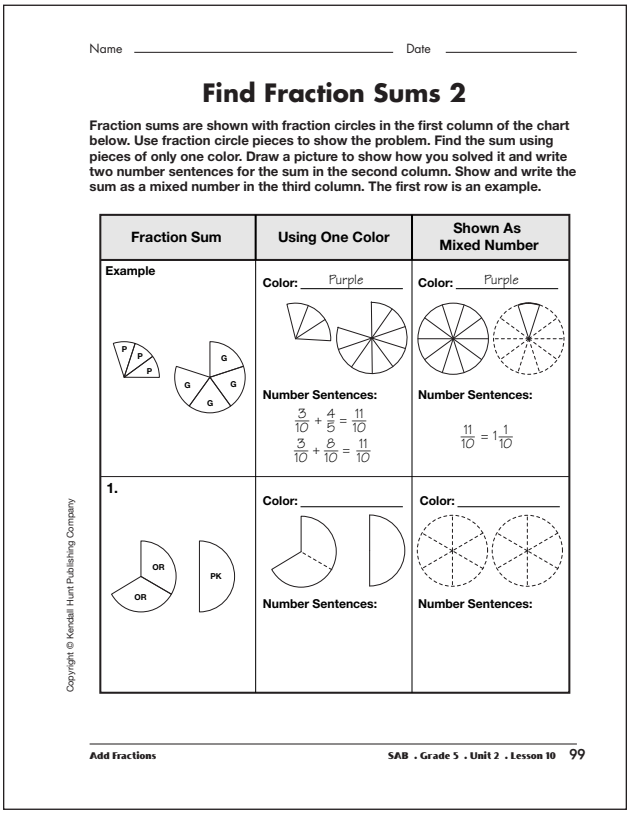
Find Fraction Sums 2 (SAB pp. 99–101)
Questions 1–6

1. aqua; $\frac{1}{3}+\frac{1}{3}+\frac{1}{2}=\frac{7}{6}$; $\frac{2}{6}+\frac{2}{6}+\frac{3}{6}=\frac{7}{6}$; $\frac{7}{6}=1\frac{1}{6}$
2. black; $\frac{2}{12}+\frac{3}{4}+\frac{2}{3}=\frac{19}{12}$; $\frac{2}{12}+\frac{9}{12}+\frac{8}{12}=\frac{19}{12}$; $\frac{19}{12}=1\frac{7}{12}$
3. blue; $\frac{1}{2}+\frac{3}{4}+\frac{1}{8}=\frac{11}{8}$; $\frac{4}{8}+\frac{6}{8}+\frac{1}{8}=\frac{11}{8}$; $\frac{11}{8}=1\frac{3}{8}$
4. aqua; $\frac{1}{3}+\frac{1}{2}+\frac{3}{6}+\frac{1}{3}=\frac{10}{6}$; $\frac{2}{6}+\frac{3}{6}+\frac{3}{6}+\frac{2}{6}=\frac{10}{6}$; $\frac{10}{6}=1\frac{4}{6}$
5. $\frac{4}{6}+\frac{3}{6}=\frac{7}{6}=1\frac{1}{6}$
6. **A.** $\frac{4}{8}+\frac{7}{8}=\frac{11}{8}=1\frac{3}{8}$
   B. $\frac{5}{6}+\frac{4}{6}=\frac{9}{6}=1\frac{3}{6}$ or $1\frac{1}{2}$
   C. $\frac{9}{12}+\frac{10}{12}=\frac{19}{12}=1\frac{7}{12}$



Name _____ Date _____

Find Fraction Sums 2

Fraction sums are shown with fraction circles in the first column of the chart below. Use fraction circle pieces to show the problem. Find the sum using pieces of only one color. Draw a picture to show how you solved it and write two number sentences for the sum in the second column. Show and write the sum as a mixed number in the third column. The first row is an example.

Fraction Sum	Using One Color	Shown As Mixed Number
Example	Color: Purple Number Sentences: $\frac{3}{10}+\frac{4}{5}=\frac{11}{10}$ $\frac{3}{10}+\frac{8}{10}=\frac{11}{10}$	Color: Purple Number Sentences: $\frac{11}{10}=1\frac{1}{10}$
1.	Color: _____ Number Sentences:	Color: _____ Number Sentences:

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Add Fractions SAB • Grade 5 • Unit 2 • Lesson 10 99

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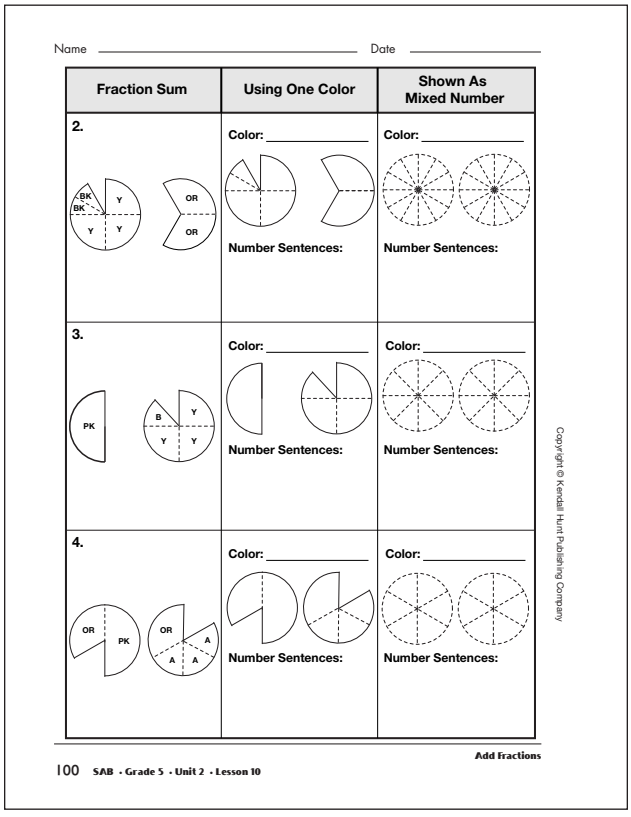

Name _____ Date _____

Fraction Sum	Using One Color	Shown As Mixed Number
2.	Color: _____ Number Sentences:	Color: _____ Number Sentences:
3.	Color: _____ Number Sentences:	Color: _____ Number Sentences:
4.	Color: _____ Number Sentences:	Color: _____ Number Sentences:

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Add Fractions

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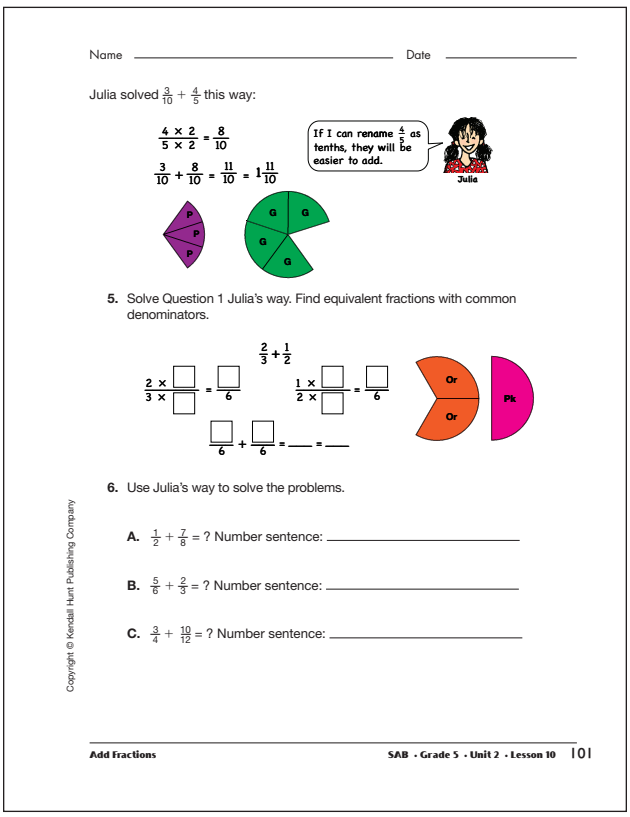

Name _____ Date _____

Julia solved $\frac{3}{10}+\frac{4}{5}$ this way:

$\frac{4\times2}{5\times2}=\frac{8}{10}$

$\frac{3}{10}+\frac{8}{10}=\frac{11}{10}=1\frac{11}{10}$

5. Solve Question 1 Julia's way. Find equivalent fractions with common denominators.

$\frac{2}{3}+\frac{1}{2}$

$\frac{2\times\square}{3\times\square}=\frac{\square}{6}$ $\frac{1\times\square}{2\times\square}=\frac{\square}{6}$

$\frac{\square}{6}+\frac{\square}{6}=__=__$

6. Use Julia's way to solve the problems.

   A. $\frac{1}{2}+\frac{7}{8}$ = ? Number sentence: _____

   B. $\frac{5}{6}+\frac{2}{3}$ = ? Number sentence: _____

   C. $\frac{3}{4}+\frac{10}{12}$ = ? Number sentence: _____

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Add Fractions SAB • Grade 5 • Unit 2 • Lesson 10 101

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Name _____ Date _____

Fraction Problems

Homework

1. Find the missing numerator or denominator.

A. $\frac{4}{3} = \frac{\square}{6}$ **B.** $\frac{2}{3} = \frac{6}{\square}$

C. $\frac{4}{12} = \frac{1}{\square}$ **D.** $\frac{9}{12} = \frac{\square}{4}$

E. $\frac{5}{2} = \frac{\square}{6}$ **F.** $\frac{6}{8} = \frac{\square}{12}$

G. Explain how you solved Question 1F.

2. Change the improper fractions to mixed numbers. Then use the code to find the mystery word.

Improper Fraction	$\frac{11}{4}$	$\frac{16}{3}$	$\frac{15}{2}$	$\frac{14}{5}$	$\frac{25}{8}$
Mixed Number					
Letter					

Code

Mixed Number	$2\frac{1}{4}$	$5\frac{2}{3}$	$7\frac{1}{2}$	$2\frac{4}{5}$	$3\frac{1}{8}$	$2\frac{3}{4}$	$4\frac{1}{8}$	$5\frac{1}{3}$
Letter	E	O	R	T	Y	P	N	A

The mystery word is _____.

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Name _____ Date _____

Solve the problems about Mr. Moreno's classroom party.

3. Carla ate $\frac{3}{5}$ of her bag of popcorn and Levi ate $\frac{7}{10}$ of his bag of popcorn.

A. How much popcorn did they eat altogether? Write a number sentence.

B. Who ate more popcorn?

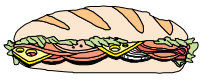
4. Mr. Moreno ordered a jumbo pizza for the classroom party. $\frac{2}{9}$ of the pizza had green peppers, $\frac{2}{3}$ of the pizza had mushrooms, and $\frac{6}{12}$ of the pizza had pepperoni. How much of the pizza had vegetables on it? Write a number sentence.

5. There was a large submarine sandwich at the party, too. Miguel ate $\frac{1}{4}$ of the sandwich, Emily ate $\frac{1}{2}$ of the sandwich, and Roberto ate $\frac{2}{8}$ of the sandwich.

A. How much of the sandwich did they eat altogether? Write a number sentence.

B. Who ate the largest portion of the sandwich?

C. Show or tell how you solved Question 5B.



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Fraction Problems (SAB pp. 103–104)
Homework
Questions 1–5

1. A. $\frac{4}{3} = \frac{8}{6}$

B. $\frac{2}{3} = \frac{6}{9}$

C. $\frac{4}{12} = \frac{1}{3}$

D. $\frac{9}{12} = \frac{3}{4}$

E. $\frac{5}{2} = \frac{15}{6}$

F. $\frac{6}{8} = \frac{9}{12}$

G. Possible response: I found an equivalent fraction for $\frac{6}{8}$ by dividing both the numerator and the denominator in half. I got $\frac{3}{4}$. Then I found an equivalent fraction for $\frac{3}{4}$ with a denominator of 12 by multiplying the numerator by 3. I got $\frac{9}{12}$. $\frac{3}{4} = \frac{6}{8} = \frac{9}{12}$.

2.

Improper Fraction	$\frac{11}{4}$	$\frac{16}{3}$	$\frac{15}{2}$	$\frac{14}{5}$	$\frac{25}{8}$
Mixed Number	$2\frac{3}{4}$	$5\frac{1}{3}$	$7\frac{1}{2}$	$2\frac{4}{5}$	$3\frac{1}{8}$
Letter	P	A	R	T	Y

3. A. $\frac{3}{5} + \frac{7}{10} = \frac{13}{10} = 1\frac{3}{10}$ or $\frac{6}{10} + \frac{7}{10} = \frac{13}{10}$ or $1\frac{3}{10}$

B. Levi

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

5. A. $\frac{1}{4} + \frac{1}{2} + \frac{2}{8} = \frac{8}{8}$ or 1 or $\frac{2}{8} + \frac{4}{8} + \frac{2}{8} = \frac{8}{8}$ or 1

B. Emily

C. Possible response: I know $\frac{1}{4} < \frac{1}{2}$ and I know $\frac{2}{8} < \frac{1}{2}$, so since Emily ate $\frac{1}{2}$ of the sandwich, she ate the most.

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