



GRADE 5 SUPPLEMENT

Set A5 Number & Operations: Adding & Subtracting Fractions

Includes

Independent Worksheet 1: Fractions through the School Day	A5.1
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Independent Worksheet 3: Adding & Subtracting Fractions	A5.9

Skills & Concepts

- ★ use fraction models to represent the addition and subtraction of fractions with like denominators
- ★ solve problems involving the addition and subtraction of fractions with like denominators
- ★ convert improper fractions to mixed numbers

Bridges in Mathematics Grade 5 Supplement

Set A5 Numbers & Operations: Adding & Subtracting Fractions

The Math Learning Center, PO Box 12929, Salem, Oregon 97309. Tel. 1 800 575–8130.

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Prepared for publication on Macintosh Desktop Publishing system.

Printed in the United States of America.

P201304

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Bridges in Mathematics is a standards-based K–5 curriculum that provides a unique blend of concept development and skills practice in the context of problem solving. It incorporates the Number Corner, a collection of daily skill-building activities for students.

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NAME _____

DATE _____

Set A5 ★ Independent Worksheet 1



INDEPENDENT WORKSHEET

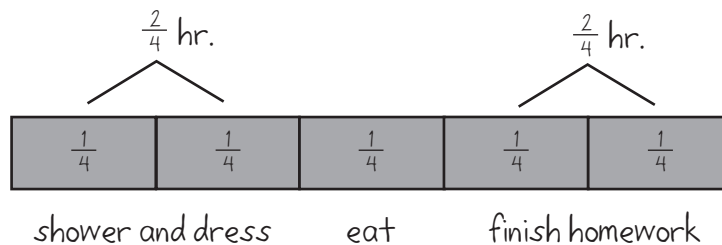
Fractions through the School Day

Make a labeled sketch to solve each of the problems below. Use words to explain your answer, and write an equation to match. Use your fraction kit to help if you want.

Note: If the answer turns out to be an improper fraction, change it to a mixed number.

example Sam and Ali are friends. They're both in Mrs. Hill's fifth grade class. When Sam gets up on school days, it takes him $\frac{2}{4}$ of an hour to take a shower and get dressed, $\frac{1}{4}$ to eat breakfast, and $\frac{2}{4}$ of an hour to finish his homework. How long does it take Sam to get ready for school?

a Labeled Sketch



b Explanation (in words):

2 fourths plus 1 fourth plus 2 more fourths is 5 fourths in all. There are 4 fourths in an hour, so it takes him 1 and $\frac{1}{4}$ hours to get ready for school.

c Equation:

$$\frac{2}{4} + \frac{1}{4} + \frac{2}{4} = \frac{5}{4} \quad \frac{5}{4} = 1\frac{1}{4} \text{ hour}$$

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Independent Worksheet 1 Fractions through the Day (cont.)

1 Ali fixed eggs for her family this morning. She had $\frac{5}{6}$ of a carton when she started, and $\frac{2}{6}$ of a carton left when she finished. What fraction of the carton did Ali use?

a Labeled Sketch

b Explanation (in words):

c Equation:

2 Sam and Ali's class had P.E. first thing this morning P.E. lasts $\frac{4}{8}$ of an hour. They spent $\frac{1}{8}$ of an hour running laps. What fraction of an hour did they have left after that?

a Labeled Sketch

b Explanation (in words):

c Equation:

(Continued on next page.)

Independent Worksheet 1 Fractions through the Day (cont.)

3 Ali had $\frac{5}{6}$ of a granola bar in her lunchbox. She ate $\frac{3}{6}$ of the bar at recess. What fraction of the bar did she have left for lunch?

a Labeled Sketch

b Explanation (in words):

c Equation:

4 They had a math test after recess. Mrs. Hill said, "You have $\frac{8}{12}$ of an hour to complete the test." After $\frac{6}{12}$ of an hour, Sam only had 1 page left to go. How much of an hour did he have left to finish the last page?

a Labeled Sketch

b Explanation (in words):

c Equation:

(Continued on back.)

Independent Worksheet 1 Fractions through the Day (cont.)

5 The 5th graders at Sam and Ali's school take turns picking up trash on the playground after lunch each day. The chart below shows how many pounds of trash each class has picked up so far this week. How many pounds have they collected in all?

Fifth Grade Class	Pounds of trash
Mrs. Hill's Class	$2\frac{1}{6}$ pounds
Mr. Wong's Class	$1\frac{2}{6}$ pounds
Mrs. Tejada's Class	$1\frac{4}{6}$ pounds

a Labeled Sketch

b Explanation (in words):

c Equation:

6 The 5th graders are painting a mural about recycling on one of the walls by the playground. So far, they've used $1\frac{2}{8}$ gallons of red paint, $2\frac{5}{8}$ gallons of yellow paint, and $2\frac{3}{8}$ gallon of green paint. How many gallons of paint have they used in all?

a Labeled Sketch

b Explanation (in words):

c Equation:

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Set A5 ★ Independent Worksheet 2



INDEPENDENT WORKSHEET

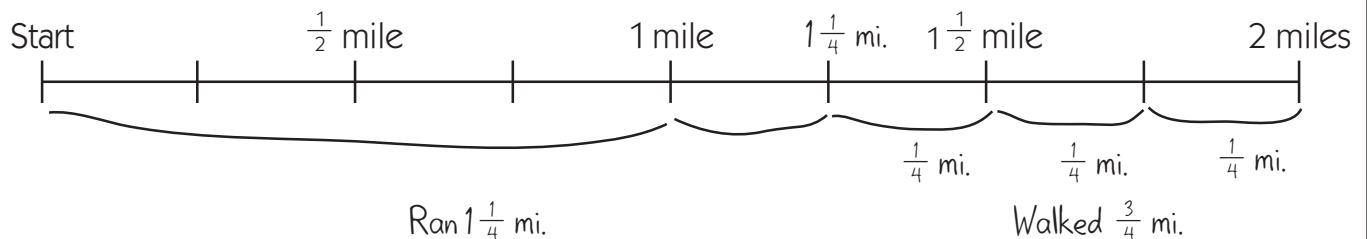
Fractions on the Trail

There is a 2-mile hiking trail behind Kennedy School. Make a labeled sketch on the map to solve each of the problems below. Add more marks and fractions to the line if you need to. Use words to explain your answer, and write an equation to match.

Note: If the answer turns out to be an improper fraction, change it to a mixed number.

example Marissa and her mom ran the first $1\frac{1}{4}$ miles of the trail. They got tired, so they walked the rest of the way. How far did they walk?

a Labeled Sketch



b Explanation (in words):

They walked $\frac{3}{4}$ of a mile because $2 - 1$ leaves 1 mile, and then they ran another $\frac{1}{4}$ of a mile. That left $\frac{3}{4}$ of mile to go.

c Equation

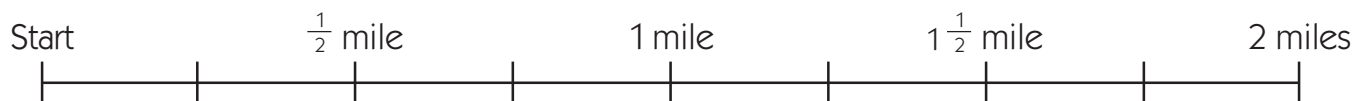
$$2 - 1\frac{1}{4} = \frac{3}{4} \text{ mile}$$

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Independent Worksheet 2 Fractions on the Trail (cont.)

1 Tonio took his little brother for a walk on the trail. They walked $\frac{3}{4}$ of a mile. Then they turned around and went back to the start. How many miles did they walk in all?

a Labeled Sketch

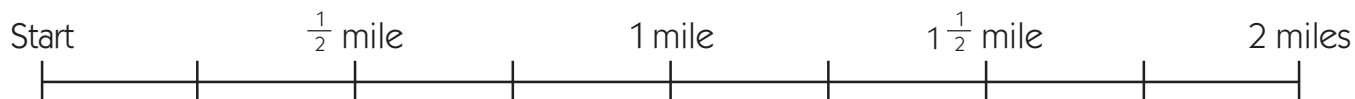


b Explanation (in words):

c Equation:

2 Troy and Eric decided to run the whole 2 miles. Eric twisted his ankle after they'd gone $1\frac{1}{8}$ of a mile. They decided to walk the rest of the way and call Eric's dad to come get them. How many eighths of a mile did they have to walk to get to the end of the trail?

a Labeled Sketch



b Explanation (in words):

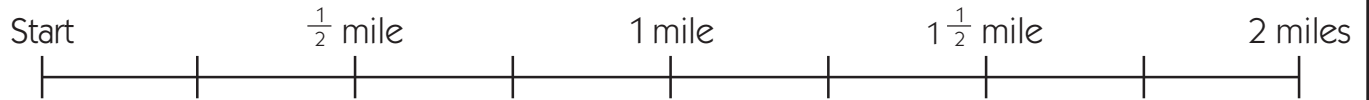
c Equation:

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Fractions Independent Worksheet 2 Fractions on the Trail (cont.)

3 Kendra and her grandma walked $1\frac{3}{8}$ of a mile down the trail. Then they turned around and walked back to the start. How many miles did they walk in all?

a Labeled Sketch

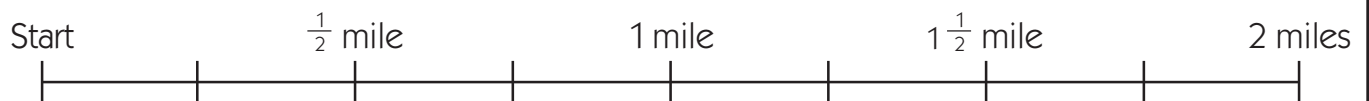


b Explanation (in words):

c Equation:

4 Carter was walking down the trail. When he got to the $\frac{3}{4}$ mile marker, he realized that his glasses had slipped out of his pocket. He turned around and started to go back. He found his glasses right beside the $\frac{2}{4}$ mile marker. Then he turned around and walked to the end of the trail to meet his friend. How many miles did he walk in all?

a Labeled Sketch



b Explanation (in words):

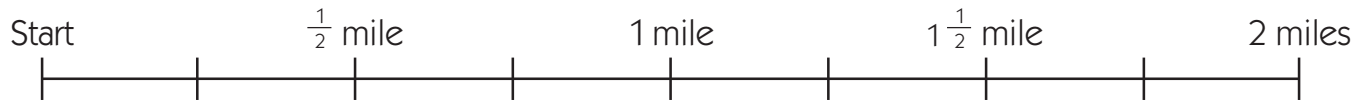
c Equation:

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Independent Worksheet 2 Fractions on the Trail (cont.)

5 Everyday, Mrs. Goodman starts at the beginning of the trail and walks $1\frac{1}{4}$ miles. Then she turns around and walks back to the start. How many miles does she walk in 1 week (7 days)?

a Labeled Sketch



b Explanation (in words):

c Equation:

**CHALLENGE**

6 Make up your own story problem about the hiking trail. Then give it to a classmate to solve. Be sure to check it first to make sure it works.

a My problem:

b Labeled Sketch

c Explanation (in words):

d Equation:

NAME _____

DATE _____

Set A5 ★ Independent Worksheet 3

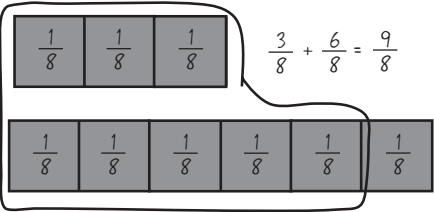


INDEPENDENT WORKSHEET

Adding & Subtracting Fractions

Use numbers, words, *and* labeled sketches to solve each of the problems below. Show all of your work. Use your fraction kit to help if you want.

Note: If the answer turns out to be an improper fraction, change it to a mixed number.

Problem	Explanation
<p>example</p> $1\frac{3}{8} + 2\frac{6}{8} = 4\frac{1}{8}$	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> $1\frac{3}{8}$ $2\frac{6}{8}$ </div> <div style="border: 1px solid black; padding: 5px; width: 300px;"> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px; text-align: center;">1</div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px; text-align: center;">1</div> <div style="border: 1px solid black; height: 20px; text-align: center;">1</div> </div> <div style="margin-left: 20px;">  <p>$\frac{3}{8} + \frac{6}{8} = \frac{9}{8}$</p> <p>$\frac{9}{8}$ makes $1\frac{1}{8}$ because there are $\frac{8}{8}$ in 1, and then you have $\frac{1}{8}$ left over.</p> </div> </div> <div style="text-align: center; margin-top: 10px;"> $1 + 2 = 3$ $3 + 1\frac{1}{8} = 4$ </div>
<p>1</p> $\frac{5}{6} + \frac{3}{6} =$	Empty space for student explanation

(Continued on back.)

Independent Worksheet 3 Adding & Subtracting Fractions (cont.)

Problem	Explanation
2 $\frac{7}{8} + \frac{4}{8} =$	
3 $2\frac{3}{4} + 3\frac{3}{4} =$	
4 $1\frac{7}{8} - \frac{5}{8} =$	

(Continued on next page.)

Independent Worksheet 3 Adding & Subtracting Fractions (cont.)

Problem	Explanation
5 $\begin{array}{r} 3\frac{5}{6} \\ + 2\frac{3}{6} \\ \hline \end{array}$	
6 $\begin{array}{r} 3\frac{4}{8} \\ - 2\frac{2}{8} \\ \hline \end{array}$	

**CHALLENGE**

7 $\begin{array}{r} 4\frac{2}{6} \\ - 2\frac{5}{6} \\ \hline \end{array}$	
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