

Student Activity Book

Estimate Fraction Sums with Number Lines (SAB pp. 93–94)

Questions 1–5

Explanations will vary. One possible response is given for each.

1. No; $\frac{1}{2} + \frac{2}{3}$ is a little over 1 yard of sequins.
- 2.* No; If Maya walked $\frac{2}{3}$ mile on Saturday, she would have to walk $\frac{1}{3}$ mile on Sunday to make a full mile. She walked $\frac{1}{6}$ mile. $\frac{1}{6}$ is less than $\frac{1}{3}$, so she walked less than 1 mile.
- 3.* less than $\frac{1}{2}$ the bar. $\frac{1}{6} = \frac{2}{12}$, $\frac{1}{4} = \frac{3}{12}$; $\frac{3}{12} + \frac{2}{12} = \frac{5}{12}$ and $\frac{5}{12}$ is less than $\frac{1}{2}$.
4. more than 4 cups; $2 + 1 = 3$; $\frac{3}{4} + \frac{1}{2}$ is greater than one.
5. A. less than 1
B. greater than 1
C. less than 1
D. Possible response: $\frac{11}{12}$ is $\frac{1}{12}$ away from 1. $\frac{1}{8}$ is greater than $\frac{1}{12}$, so $\frac{11}{12} + \frac{1}{8}$ is greater than 1.

Name _____ Date _____

Estimate Fraction Sums with Number Lines

Use the number lines to solve these problems.

1. At the fabric store, sequins are sold in long strips wrapped on spools. Linda's mother needs 2 yards of sequins to make costumes for the skating show. She found $\frac{1}{2}$ yard of sequins remaining on one spool and $\frac{2}{3}$ yard of sequins remaining on another spool. Did Linda's mother find enough sequins for the costumes? Explain your reasoning.
2. Maya walked $\frac{2}{3}$ of a mile on Saturday. She walked $\frac{1}{6}$ of a mile on Sunday. Did she walk a full mile altogether? Explain how you decided.

How can I show sixths on my number line?

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Estimate Fraction Sums SAB • Grade 5 • Unit 2 • Lesson 9 93

Student Activity Book - Page 93

Name _____ Date _____

3. Keenya divided a candy bar into 12 equal parts. She ate $\frac{1}{6}$ of the candy bar on Wednesday. She ate $\frac{1}{4}$ of the candy bar on Thursday. Did she eat more or less than of the candy bar? Explain your reasoning.
4. Luis made cookies with his mother. He used $2\frac{3}{4}$ cups of flour in the sugar cookie recipe and $1\frac{1}{2}$ cups of flour in the oatmeal cookie recipe. Did he use more or less than 4 cups of flour altogether? Show or tell how you decided.
5. Estimate the sums for each problem. Decide if the sum will be greater or less than one.

A. $\frac{1}{2} + \frac{2}{5}$

B. $\frac{1}{8} + \frac{11}{12}$

C. $\frac{1}{6} + \frac{5}{12}$
- D. Explain your reasoning for Question 5B.

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94 SAB • Grade 5 • Unit 2 • Lesson 9 Estimate Fraction Sums

Student Activity Book - Page 94

*Answers and/or discussion are included in the lesson.