ALBERT

Name _____ Date _____

Fraction Word Problems Worksheet

Grade 5 · Common Core 5.NF.A.2

> Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result 2/5 + 1/2 = 3/7, by observing that 3/7 < 1/2.

Practice

Builds the skill step by step.

1. Maya ran $\frac{1}{2}$ mile on Monday and $\frac{1}{3}$ mile on Tuesday. How far did she run in all?

2. A muffin recipe uses $\frac{3}{4}$ cup of flour and $\frac{1}{8}$ cup of sugar. How many cups is that altogether?

3. Jon had $\frac{5}{6}$ of a pizza. He ate $\frac{1}{3}$ of the pizza. What fraction of the pizza is left?

4. Ana added $\frac{1}{2} + \frac{1}{3}$ and got $\frac{2}{5}$. Which reason shows her answer is not reasonable?

   A. The sum must be less than $\frac{1}{3}$.

   B. $\frac{2}{5}$ is greater than 1.

   C. The sum must be exactly 1.

   D. $\frac{2}{5}$ is less than $\frac{1}{2}$, but the sum must be more than $\frac{1}{2}$.

5. A ribbon is $\frac{2}{3}$ yard long. Kim cuts off $\frac{1}{4}$ yard. How much ribbon is left?

6. Sam walked $\frac{7}{8}$ mile in the morning and $\frac{4}{5}$ mile in the afternoon. About how far did he walk in all?

   A. about $\frac{1}{2}$ mile

   B. about 1 mile

   C. about 2 miles

   D. about 3 miles

7. A jug held $\frac{9}{10}$ liter of juice. Eli poured out $\frac{1}{2}$ liter. How much juice is left in the jug? Write your answer in simplest form.

8. Two boards are $1\frac{1}{4}$ feet and $2\frac{1}{2}$ feet long. What is their total length?

9. Rosa practiced piano for $\frac{1}{4}$ hour and guitar for $\frac{1}{6}$ hour. How long did she practice in all?

10. Liam needs $\frac{3}{4}$ cup of milk for a recipe. He has $\frac{1}{2}$ cup. How much more milk does he need?

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On Level

Grade-level practice.

1. In a class garden, $\frac{2}{5}$ of the beds have tomatoes and $\frac{1}{3}$ of the beds have beans. What fraction of the beds have tomatoes or beans?

2. A garden is $\frac{3}{8}$ squash and $\frac{1}{4}$ peppers. The rest is corn. What fraction of the garden is corn?

3. A trail is $3\frac{1}{2}$ miles long. A family has hiked $1\frac{3}{4}$ miles. How many miles are left?

4. Theo said $\frac{3}{5} + \frac{1}{2} = \frac{4}{7}$. Which estimate shows that Theo is wrong?

   A. $\frac{4}{7}$ is less than 1, but $\frac{3}{5} + \frac{1}{2}$ is more than 1.

   B. $\frac{4}{7}$ is greater than $\frac{3}{5}$.

   C. The sum must be less than $\frac{1}{2}$.

   D. $\frac{4}{7}$ is equal to $\frac{1}{2}$.

5. A bucket has $2\frac{2}{3}$ gallons of water. Dev adds $1\frac{1}{2}$ gallons. How much water is in the bucket now?

6. Nora's string is $\frac{5}{6}$ yard long. Ben's string is $\frac{3}{4}$ yard long. How much longer is Nora's string?

7. A water tank was $\frac{7}{8}$ full. After a leak, it was $\frac{1}{3}$ full. What fraction of the tank leaked out?

8. Jada read $\frac{1}{4}$ of a book on Saturday and $\frac{2}{5}$ of the book on Sunday. Which equation shows the fraction of the book she read in the two days?

   A. $\frac{1}{4} + \frac{2}{5} = \frac{3}{9}$

   B. $\frac{1}{4} + \frac{2}{5} = \frac{3}{20}$

   C. $\frac{1}{4} + \frac{2}{5} = \frac{13}{20}$

   D. $\frac{2}{5} - \frac{1}{4} = \frac{3}{20}$

9. Ted biked $4\frac{1}{3}$ kilometers in the morning and $2\frac{5}{6}$ kilometers in the afternoon. How much farther did he bike in the morning?

10. One bag holds $1\frac{7}{8}$ pounds of apples and another holds $2\frac{1}{10}$ pounds. Which is the best estimate of the total weight?

    A. about 3 pounds

    B. about 4 pounds

    C. about 5 pounds

    D. about 6 pounds

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Challenge

Multi-step and word problems that stretch it.

1. Three friends shared a pizza. Ava ate $\frac{1}{4}$ of it, Ben ate $\frac{1}{3}$ of it and Cal ate $\frac{1}{6}$ of it. What fraction of the pizza is left?

2. A painter had $5\frac{1}{2}$ quarts of paint. She used $1\frac{3}{4}$ quarts on Monday and $2\frac{1}{3}$ quarts on Tuesday. How much paint is left?

3. Wendy says $\frac{5}{8} + \frac{3}{4}$ is less than 1. Which statement is correct?

   A. She is wrong; the sum is 2.

   B. She is right; the sum is $\frac{7}{8}$.

   C. She is right; the sum is $\frac{8}{12}$.

   D. She is wrong; the sum is $1\frac{3}{8}$.

4. A ribbon is 4 yards long. Pia cuts off $1\frac{2}{3}$ yards and then $1\frac{1}{4}$ yards. How much ribbon is left?

5. Kai walked $\frac{2}{3}$ mile to school and back home the same way. Then he walked $\frac{3}{4}$ mile to the park. How far did he walk in all?

6. Plant A grew $\frac{3}{4}$ inch in week 1 and $\frac{5}{8}$ inch in week 2. Plant B grew $1\frac{1}{2}$ inches in the same two weeks. Which plant grew more, and by how much?

7. A board is $2\frac{1}{4}$ feet long. Jamal cuts off $\frac{3}{4}$ foot and says $2\frac{1}{2}$ feet are left. Find the correct length that is left.

8. Ines needs $2\frac{1}{2}$ cups of berries for a pie. She has $\frac{3}{4}$ cup of blueberries and $1\frac{1}{3}$ cups of strawberries. How many more cups of berries does she need?

9. Without finding exact answers, which sum is between 1 and $1\frac{1}{2}$?

   A. $\frac{1}{3} + \frac{1}{4}$

   B. $\frac{9}{10} + \frac{7}{8}$

   C. $\frac{7}{8} + \frac{1}{3}$

   D. $\frac{1}{2} + \frac{1}{10}$

10. A runner's goal is 3 miles. She runs $1\frac{2}{5}$ miles and then $1\frac{1}{2}$ miles. How far short of her goal is she?