Answer Key · Lesson 3.7: Fraction Word Problems

School Launch · Pre-Algebra · Unit 3 · Worksheet A · for the parent

Key

1. 48 apples

Ruth picked 72 apples and gave $\frac{2}{3}$ of them to a neighbor. How many apples did Ruth give away?

2. 20 apples

Isaac picked 24 apples and gave $\frac{5}{6}$ of them to a neighbor. How many apples did Isaac give away?

3. 40 apples

Abigail picked 48 apples and gave $\frac{5}{6}$ of them to a neighbor. How many apples did Abigail give away?

4. $\frac{9}{8}$ cup

1. Common denominator 8: $\frac{4}{8} + \frac{5}{8} = \frac{9}{8}$
2. Simplify: $\frac{9}{8}$

A recipe for bread uses $\frac{1}{2}$ cup of honey and $\frac{5}{8}$ cup of molasses. How many cups of sweetener is that in all?

5. $\frac{7}{8}$ cup

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

A recipe for bread uses $\frac{1}{4}$ cup of honey and $\frac{5}{8}$ cup of molasses. How many cups of sweetener is that in all?

6. $\frac{3}{4}$ cup

1. $\frac{1}{4} + \frac{1}{2} = \frac{1}{4} + \frac{1}{2}$

A recipe for bread uses $\frac{1}{4}$ cup of honey and $\frac{1}{2}$ cup of molasses. How many cups of sweetener is that in all?

7. 1 cup

1. Common denominator 2: $\frac{1}{2} + \frac{1}{2} = \frac{2}{2}$
2. Simplify: 1

A recipe for bread uses $\frac{1}{2}$ cup of honey and $\frac{1}{2}$ cup of molasses. How many cups of sweetener is that in all?

8. 17 pieces, 0 ft left

1. $8\frac{1}{2} \div \frac{1}{2} = \frac{17}{2} \times 2 = 17$
2. Whole pieces = the whole-number part.

Naomi has a board $8\frac{1}{2}$ feet long and cuts pieces $\frac{1}{2}$ foot long. How many whole pieces can Naomi cut, and how much board is left over?

9. 15 pieces, $\frac{1}{8}$ ft left

1. $5\frac{3}{4} \div \frac{3}{8} = \frac{23}{4} \times \frac{8}{3} = \frac{46}{3}$
2. Whole pieces = the whole-number part.

Josiah has a board $5\frac{3}{4}$ feet long and cuts pieces $\frac{3}{8}$ foot long. How many whole pieces can Josiah cut, and how much board is left over?

10. 7 pieces, $\frac{1}{2}$ ft left

1. $5\frac{3}{4} \div \frac{3}{4} = \frac{23}{4} \times \frac{4}{3} = \frac{23}{3}$
2. Whole pieces = the whole-number part.

Isaac has a board $5\frac{3}{4}$ feet long and cuts pieces $\frac{3}{4}$ foot long. How many whole pieces can Isaac cut, and how much board is left over?