Divide a Whole Number by a Fraction Word Problems

Watch the **Lesson**
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Use a number line to model each problem and write an equation.

1. Sally was giving out $\frac{1}{2}$ cup servings of ice cream. She had 6 cups of ice cream to serve. How many servings did Sally give out?

2. Raul walked a total of 12 miles. He walked $\frac{1}{4}$ mile every day. How many days did it take him to walk the 12 miles?

3. Olivia has 4 yards of ribbon to make bows. Each bow takes $\frac{1}{3}$ of a yard. How many bows can Olivia make?

4. Sal makes pizzas. He has 4 cups of cheese and each pizza takes $\frac{1}{3}$ cup of cheese. How many pizzas can Sal make?

5. The factory says it takes $\frac{1}{3}$ of an hour to make a set of headphones. How many sets of headphones can be made in 8 hours?

About the Author

Jennifer Bay-Williams is a passionate mathematics educator at the University of Louisville, Kentucky. She has written many books, including Math Fact Fluency, Elementary and Middle School Mathematics: Teaching Developmentally and Teaching Student-Centered Mathematics, all of which take different angles at trying to ensure mathematics teaching engages every student.

Bay-Williams is involved with many organizations related to mathematics teaching. She is a member of the National Council of Teachers of Mathematics (NCTM) Board of Directors, a former president of the Association of Mathematics Teacher Education (AMTE), and active in TODOS: Mathematics for All.