

What's That Portion?

Dividing a Fraction by a Whole Number

Solve these problems. Use a representation and write an equation for each one.

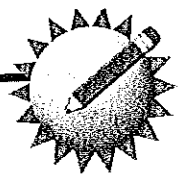
1. Four students equally shared $\frac{1}{2}$ of a pan of brownies.
What fraction of the whole pan of brownies did each student eat?

2. Three brothers equally shared $\frac{1}{4}$ of a pan of brownies.
What fraction of the whole pan of brownies did each brother eat?

3. How much popcorn would each person get if 3 people shared $\frac{1}{2}$ of a bag of popcorn equally?

4. How much popcorn would each person get if 3 people shared $\frac{1}{3}$ of a bag of popcorn equally?

5. How much popcorn would each person get if 2 people shared $\frac{1}{5}$ of a bag of popcorn equally?



Biking to the Park

Solve the following problems, drawing your own fraction bars as needed. Write an equation for each problem.

NOTE Students solve problems involving multiplying a whole number by a fraction. They also write an equation for each problem.

Eight students rode their bikes to the park during spring break. The table shows the roundtrip distances and the number of trips to the park each student made. Complete the table to show how many miles each student rode in all.

Name	Roundtrip distance (miles)	Number of roundtrips	Equation	Total distance (miles)
Rachel	$\frac{3}{4}$	3		
Terrence	$\frac{1}{2}$	5		
Zachary	$\frac{3}{4}$	4		
Talisha	$\frac{7}{8}$	2		
Georgia	$\frac{2}{3}$	6		
Benito	$\frac{9}{10}$	2		
Martin	$\frac{2}{3}$	3		
Janet	$\frac{5}{8}$	4		

Dividing with Fractions

Solve these problems. Use a representation and write an equation for each one.

1. Deon has 4 yards of ribbon. He needs $\frac{1}{3}$ yard to make 1 bow. How many bows can Deon make?
2. Tamira has 7 yards of ribbon. She needs $\frac{1}{4}$ yard to make 1 bow. How many bows can Tamira make?
3. Five students equally share $\frac{1}{2}$ of a pizza. How much of a whole pizza did each student eat?
4. Four students equally share $\frac{1}{4}$ pound of peanuts. How much of a pound of peanuts did each student get?
5. Stuart has 8 cups of flour. He needs $\frac{1}{8}$ cup of flour to make one cupcake. How many cupcakes can he make?