

## Fractions: Skill 5 - 15E

## Divide Fractions

**Answer:** Test question 15E

John wants to walk  $3\frac{3}{4}$  miles. He can walk  $1\frac{1}{4}$  miles each hour. How many hours will it take for John to walk the entire distance?

$3\frac{3}{4} \div 1\frac{1}{4}$	$\frac{15}{4} \div \frac{5}{4} = \frac{15}{4} \times \frac{4}{5}$	$\frac{15}{4} \times \frac{4}{5} = \frac{60}{20}$	$\frac{60}{20} = 3 \text{ hours}$
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Directions: Solve the following word problems.

1. Mark uses  $\frac{1}{2}$  cup of sugar to make a gallon of tea. How many gallons of tea can he make from 2 cups of sugar?
2. Marissa baked a cake. Her cake weighs  $\frac{3}{4}$  of a pound. She cut her cake into 3 equal slices. How much does each slice weigh? Write the answer that is in simplest form.

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**Divide Fractions**

Directions: Solve the following word problems.

3. John is making cookies. He has  $\frac{3}{4}$  cup of flour. Each cookie requires  $\frac{1}{12}$  cup of flour. How many cookies can he make?
  
  
  
  
  
  
  
  
  
  
4. There is  $\frac{2}{3}$  of a pizza left over. The leftover pizza is divided into 3 equal slices. What fraction of the pie is each slice?
  
  
  
  
  
  
  
  
  
  
5. Ann has  $2\frac{1}{2}$  pounds of clay. She wants to make jars from the clay. Each jar uses  $\frac{5}{6}$  of a pound of clay. How many jars can she make?
  
  
  
  
  
  
  
  
  
  
6. Mason ate  $\frac{1}{3}$  of a whole pizza pie. He divided the rest equally among 4 friends. What fraction of the pie did each friend receive? Write answer in simplest form.

Answers: Skill 15E, Grade 5

$$1. 2 \div \frac{1}{2} = \frac{2}{1} \div \frac{1}{2} = \frac{2}{1} \times \frac{2}{1} = \frac{4}{1} = 4$$

$$2. \frac{3}{4} \div 3 = \frac{3}{4} \div \frac{3}{1} = \frac{3}{4} \times \frac{1}{3} = \frac{3}{12} = \frac{1}{4} \text{ pound}$$

$$3. \frac{3}{4} \div \frac{1}{12} = \frac{3}{4} \times \frac{12}{1} = \frac{36}{4} = 9 \text{ cookies}$$

$$4. \frac{2}{3} \div 3 = \frac{2}{3} \div \frac{3}{1} = \frac{2}{3} \times \frac{1}{3} = \frac{2}{9}$$

$$5. 2\frac{1}{2} \div \frac{5}{6} = \frac{5}{2} \div \frac{5}{6} = \frac{5}{2} \times \frac{6}{5} = \frac{30}{10} = 3 \text{ jars}$$

$$6. \frac{2}{3} \div 4 = \frac{2}{3} \div \frac{4}{1} = \frac{2}{3} \times \frac{1}{4} = \frac{2}{12} = \frac{1}{6}$$