ALBERT

Name _____ Date _____

# Dividing Fractions Word Problems Worksheet

Grade 5 · Common Core 5.NF.B.7c

> Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. For example, how much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 1/3-cup servings are in 2 cups of raisins?

## Practice

Builds the skill step by step.

1. 2 friends share $\frac{1}{3}$ of a pizza equally. What fraction of the whole pizza does each friend get?

2. How many $\frac{1}{4}$-cup servings are in 3 cups of yogurt?

3. A $\frac{1}{2}$-gallon jug of juice is poured equally into 4 cups. How much juice is in each cup?

4. A 5-meter rope is cut into pieces that are each $\frac{1}{2}$ meter long. How many pieces are there?

5. Which equation answers this question? How many $\frac{1}{3}$-hour lessons fit in 2 hours?

   A. $\frac{1}{3} \div 2 = \frac{1}{6}$

   B. $2 \div \frac{1}{3} = 6$

   C. $2 + \frac{1}{3} = 2\frac{1}{3}$

   D. $2 \times \frac{1}{3} = \frac{2}{3}$

6. $\frac{1}{5}$ of a garden is split equally into 2 sections. What fraction of the whole garden is each section?

7. Ben has 4 cups of flour. Each batch of rolls uses $\frac{1}{2}$ cup. How many batches can he make?

8. $\frac{1}{4}$ pound of cheese is shared equally among 3 sandwiches. How much cheese goes on each sandwich?

9. A 6-foot board is cut into blocks that are each $\frac{1}{3}$ foot long. How many blocks are there?

10. $\frac{1}{2}$ of a cake is shared equally by 5 students. What fraction of the whole cake does each student get?

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## On Level

Grade-level practice.

1. A bag holds 3 pounds of rice. How many $\frac{1}{4}$-pound servings are in the bag?

2. $\frac{1}{3}$ liter of paint is shared equally among 4 students. How much paint does each student get?

3. In a relay, each runner runs $\frac{1}{5}$ mile. The relay is 2 miles long. How many runners are needed?

4. Kara shares $\frac{1}{2}$ of a sheet cake equally among herself and 6 classmates. What fraction of the whole cake does each person get?

   A. $\frac{1}{14}$

   B. $\frac{1}{12}$

   C. $\frac{7}{2}$

   D. $\frac{1}{7}$

5. A $\frac{1}{8}$-acre plot is split into 2 equal gardens. How many acres is each garden?

6. Students take turns on a computer. Each turn is $\frac{1}{6}$ hour. How many turns fit in 2 hours?

7. A 5-pound bag of birdseed is used to fill feeders. Each feeder holds $\frac{1}{3}$ pound. How many feeders can be filled?

8. $\frac{1}{2}$ liter of water is shared equally among 4 plants. How much water does each plant get?

9. Leo says that when 4 people share $\frac{1}{3}$ of a pie equally, each person gets $\frac{4}{3}$ of the pie. Which statement is correct?

   A. Leo is right.

   B. Each person gets $\frac{3}{4}$ of the pie.

   C. Each person gets $\frac{1}{7}$ of the pie.

   D. Each person gets $\frac{1}{12}$ of the pie.

10. Ms. Reyes has 8 yards of fabric. Each scarf uses $\frac{1}{4}$ yard. How many scarves can she make?

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## Challenge

Multi-step and word problems that stretch it.

1. A teacher cuts 3 pounds of clay into $\frac{1}{4}$-pound pieces. There are 10 students, and each gets one piece. How many pieces are left over?

2. $\frac{1}{2}$ pound of trail mix is split equally into 4 bags. How many ounces are in each bag? (1 pound = 16 ounces)

3. Mrs. Diaz has 2 cups of raisins. She puts $\frac{1}{4}$ cup into each bag. Then she gives the bags out equally to 4 children. How many bags does each child get?

4. A $\frac{1}{3}$-mile trail is divided into 5 equal sections. How long is each section?

5. Which is greater: the number of $\frac{1}{2}$-cup servings in 3 cups, or the number of $\frac{1}{3}$-cup servings in 2 cups?

   A. The $\frac{1}{2}$-cup servings in 3 cups

   B. The $\frac{1}{3}$-cup servings in 2 cups

   C. They are equal.

   D. There is no way to tell.

6. A 4-yard ribbon is cut into $\frac{1}{3}$-yard pieces. Then 5 of the pieces are used. How many pieces are left?

7. Jin wants to know how many $\frac{1}{4}$-hour practices fit in 3 hours. He wrote $\frac{1}{4} \div 3 = \frac{1}{12}$. What is the correct number of practices?

8. Over 3 days, a family uses a total of $\frac{1}{4}$ of a tank of gas. They use the same amount each day. What fraction of the tank do they use each day?

9. A baker has 6 cups of icing. Each cupcake uses $\frac{1}{8}$ cup. How many cupcakes can she ice?

10. 2 friends share $\frac{1}{2}$ of a pizza equally. 3 other friends share the other $\frac{1}{2}$ equally. How much more of the whole pizza does each friend in the first group get?