

Grade 5 Math Word Problems Worksheet

Read and answer each question. Show your work!

Dividing Fractions Word Problems #1

1.	You have 2/4 of a pizza and you want to share it equally between 2
	people. How much of the pizza does each person get?

- 2. A baker is making cakes for a big party. She uses 1/4 cup of oil for each cake. How many cakes can she make if she has a bottle of oil that has 6 cups in it?
- 3. The serving size for the granola that Ted likes to eat for breakfast is 3/4 cup. How many servings are there in a box that holds 13 cups?
- 4. How many 1/2 cup servings are in a package of cheese that contains 5 1/4 cups altogether?
- 5. Mrs. Murphy's class is making pillow cases. Each pillow case uses 3/4 of a yard of fabric. How many pillow cases can they make out of 12 1/2 yards of fabric?
- 6. A book shelf is 3 1/2 feet long. Each book on the shelf is 5/8 inches wide. How many books will fit on the shelf?



Answers

- 1. $2/4 \div 2/1 = 2/4 \times 1/2 = 2/8$, which simplifies to 1/4. Each person gets $\frac{1}{4}$ of a pizza.
- 2. $6/1 \div 1/4 = 6/1 \times 4/1 = 24/1$, which simplifies to 24. She can make 24 cakes.
- 3. $13/1 \div 3/4 = 13/1 \times 4/3 = 52/3$, which simplifies to 17 1/3. There are 17 1/3 servings.
- 4. $5 \frac{1}{4} \div \frac{1}{2} = \frac{21}{4}$ (change 5 ½ into a mixed number) x $\frac{2}{1} = \frac{42}{4}$, which simplifies to 10 $\frac{1}{2}$. There are 10 ½ servings.
- 5. $12 \frac{1}{2} \div \frac{3}{4} = 25/2$ (change 12 1/2 into a mixed number) x 4/3 = 100/6, which simplifies to 16 4/6. They can make 16 pillow cases.
- Step 1: Convert the length of the bookshelf into inches: 3 1/2 feet * 12 inches/foot = 42 inches
 Step 2: Divide 42 ÷ 5/8 = 42 x 8/5 = 336/5 = 67 1/5, 67 books will fit on the shelf.