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 $121 / 2$ yards of fabric?
6. A book shelf is $31 / 2$ 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 $1 / 4$ 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 $171 / 3$.

There are $171 / 3$ servings.
4. $51 / 4 \div 1 / 2=21 / 4$ (change $51 / 4$ into a mixed number) $\times 2 / 1=42 / 4$, which simplifies to $101 / 2$.
There are $101 / 2$ servings.
5. $121 / 2 \div 3 / 4=25 / 2$ (change $121 / 2$ into a mixed number) $\times 4 / 3=100 / 6$, which simplifies to 16 4/6.
They can make 16 pillow cases.
6. Step 1: Convert the length of the bookshelf into inches:
$31 / 2$ feet * 12 inches/foot $=42$ inches
Step 2: Divide
$42 \div 5 / 8=42 \times 8 / 5=336 / 5=671 / 5$,
67 books will fit on the shelf.

