



Fractions – mixed operations word problems

Grade 5 Word Problems Worksheet

1. A pan of brownies was left out on the counter and $\frac{1}{4}$ of the brownies had already been eaten. Then John came along and ate $\frac{2}{3}$ of the brownies that were left. How much of the whole pan of brownies did John eat?
2. You have 6 donuts, and you want to give $\frac{2}{3}$ of them to a friend and keep $\frac{1}{3}$ for yourself. How many donuts would your friend get?
3. A baker is making cakes for a big party. She uses $\frac{1}{4}$ cup of oil for each cake. How many cakes can she make if she has a bottle of oil that has 15 cups in it?





- The serving size for the granola that Wilma likes to eat for breakfast is $\frac{1}{2}$ cup. How many servings are there in a box that holds 32 cups?
- Mrs. Smith's class is making vests. Each vest uses $\frac{2}{3}$ of a yard of fabric. How many vests can they make out of 18 yards of fabric?
- There was a bowl with 120 candies in it. Billy, Bob, and Buck found the bowl. Billy ate $\frac{2}{12}$ of the candies, Bob ate $\frac{3}{12}$ and Buck had $\frac{5}{12}$. How many candies were left?



Answers

1. $\frac{4}{4} (1 \text{ whole}) - \frac{1}{4} = \frac{3}{4}$ of the brownies were left initially
 $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12}$, which reduces to $\frac{1}{2}$.
 $\frac{1}{2}$ of the pan was eaten by John.
2. $6 \times \frac{2}{3} = 4$
Your friend gets 4 donuts.
3. $15 \div \frac{1}{4} = 60$
She can make 60 cakes.
4. $32 \div \frac{1}{2} = 64$
There are 64 servings.
5. $18 \div \frac{2}{3} = \frac{54}{2}$, which reduces to 27.
They can make 27 vests.
6. $\frac{2}{12} + \frac{3}{12} + \frac{5}{12} = \frac{10}{12} = \frac{5}{6}$
 $\frac{5}{6} \times 120 = 100$; the boys ate 100 candies.
 $120 - 100 = 20$
There were 20 candies left.