

## Fractions – mixed operations word problems

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### 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?



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4. 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?
5. 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?
6. 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?

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## Answers

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