

## Fractions – mixed operations word problems

---

### Grade 5 Word Problems Worksheet

1. A baker uses  $\frac{1}{8}$  of a can of whipping cream and 3 scoops of sprinkles for every cupcake. How many cupcakes will be garnished with 5 cans of whipped cream?
  
2. Mr. Miller sells poutine for \$10 a serving. Today, he was able to sell 56 servings. Three quarters of the number of servings were bought with a mango smoothie which cost \$2. How many servings were sold with a mango smoothie? What was his sales total?
  
3. Of the 230 children in 6th grade,  $\frac{3}{5}$  are boys. How many of the 6<sup>th</sup> graders are girls? If  $\frac{1}{4}$  of the girls are part of the student choir, how many of the girls are members of the choir?



- 
4. Mr. Johnson is making leather shoes. Each pair of shoes uses  $\frac{3}{4}$  of a yard of leather and  $3\frac{1}{2}$  yards of nylon thread. How many pairs of shoes can he make out of 21 yards of leather?
5. Mom is making cookies for the kids. She uses  $\frac{1}{5}$  of a cup of chocolate chips for each batch of cookies. Each batch makes 12 cookies. How many cookies can she make if she has a bag of chocolate chips that has 5 cups in it?
6. There are 4 boxes each containing 12 chocolate bars in the fridge. How many chocolate bars are there altogether? If  $\frac{3}{8}$  of them are white chocolate bars and the rest are dark chocolate bars, how many dark chocolate bars are there?

---

## Answers

- $5 \div \frac{1}{8} = 40$   
The baker can garnish 40 cupcakes with 5 cans of whipping cream.
- $10 \times 56 = \$560$  sales for poutine  
 $56 \times \frac{3}{4} = 42$  servings were with a mango smoothie  
 $42 \times 2 = \$84$  sales for mango smoothies  
 $560 + 84 = 644$   
His sales total is \$644.
- $230 \times \frac{3}{5} = 138$  total number of boys  
 $230 - 138 = 92$  total number of girls  
 $92 \times \frac{1}{4} = 23$   
23 of the girls are members of the choir.
- $21 \div \frac{3}{4} = 28$   
He can make 28 pairs of leather shoes.
- $5 \div \frac{1}{5} = 25$ ; She can bake 25 batches of cookies.  
 $25 \times 12 = 300$   
She can make 300 cookies.
- $4 \times 12 = 48$  chocolate bars  
 $\frac{8}{8} (1 \text{ whole}) - \frac{3}{8} = \frac{5}{8}$  of the chocolate bars are dark chocolate  
 $48 \times \frac{5}{8} = 30$   
There are 48 chocolate bars in the fridge and 30 of them are dark chocolate.