

## Fraction – Word Problems

1. There are 40 cupcakes in a box. Liam ate some cupcakes and found that  $\frac{3}{5}$  of the cupcakes were left. How many cupcakes did Liam eat?
2. Sarah has 48 coins in total.  $\frac{1}{3}$  are nickels,  $\frac{1}{4}$  are dimes, and the rest are pennies. What is the total value of Sarah's coins?
3. A store has 90 juice bottles. It sold  $\frac{5}{9}$  of them in the afternoon. How many bottles are left?
4. A farmer has 25 chickens, 15 ducks, and 20 turkeys. If he sold  $\frac{2}{5}$  of all the poultry, how many birds does he have left?
5. A total of 720 people went to a sports game.  $\frac{1}{2}$  were women,  $\frac{1}{3}$  were men, and the rest were kids. How many kids were there?

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6. A classroom has 72 supplies in total.  $\frac{1}{6}$  are notebooks,  $\frac{1}{3}$  are pencils, and the rest are crayons. How many crayons are there?
  
7. There are 48 slices of pizza. The kids ate  $\frac{7}{12}$  of the slices. How many slices are left?
  
8. Noah picked 60 apples. He gave  $\frac{1}{4}$  of them to his friend and  $\frac{1}{5}$  of them to his teacher. How many apples does Noah have left?
  
9. There are 54 balloons at a party. Some balloons popped, and now  $\frac{2}{3}$  of the balloons are still left. How many balloons popped?
  
10. Jean had some money. He gave his brother  $\frac{1}{3}$  of his money, and he still has \$60 left. How much money did Jean have at the beginning?

## Fraction – Answer Key

1. The number of cupcakes left is  $(\frac{3}{5}) \times 40 = 24$ .  
The number of cupcakes Liam ate is  $40 - 24 = 16$ .
2. The number of nickels is  $(\frac{1}{3}) \times 48 = 16$ .  
The number of dimes is  $(\frac{1}{4}) \times 48 = 12$ .  
The number of pennies is  $48 - (16 + 12) = 20$ .  
The total value is  $(16 \times \$0.05) + (12 \times \$0.10) + (20 \times \$0.01) = \$2.20$ .
3. The number of bottles sold is  $(\frac{5}{9}) \times 90 = 50$ .  
The number of bottles left is  $90 - 50 = 40$  bottles.
4. The total number of birds is  $25 + 15 + 20 = 60$ .  
The number of birds sold is  $(\frac{2}{5}) \times 60 = 24$ .  
The number of birds left is  $60 - 24 = 36$  birds.
5. The number of women is  $(\frac{1}{2}) \times 720 = 360$ .  
The number of men is  $(\frac{1}{3}) \times 720 = 240$ .  
The number of kids is  $720 - (360 + 240) = 120$ .
6. The number of notebooks is  $(\frac{1}{6}) \times 72 = 12$ .  
The number of pencils is  $(\frac{1}{3}) \times 72 = 24$ .  
The number of crayons is  $72 - (12 + 24) = 36$ .
7. The number of slices eaten is  $(\frac{7}{12}) \times 48 = 28$ .  
The number of slices left is  $48 - 28 = 20$  slices.
8. The number of apples given to his friend is  $(\frac{1}{4}) \times 60 = 15$ .  
The number of apples given to his teacher is  $(\frac{1}{5}) \times 60 = 12$ .  
The number of apples left is  $60 - (15 + 12) = 60 - 27 = 33$  apples.
9. The number of balloons left is  $(\frac{2}{3}) \times 54 = 36$ .  
The number of balloons that popped is  $54 - 36 = 18$  balloons.
10. The fraction of money Jean kept is  $1 - \frac{1}{3} = \frac{2}{3}$ .  
The amount he kept is  $(\frac{2}{3}) \times (\text{starting money}) = 60$ .  
Starting money =  $60 \div (\frac{2}{3}) = 60 \times (\frac{3}{2}) = \$90$ .