

# Fractions of Amounts Word Problems

1. Sarah entered a 100-word story competition. She wrote her story over two evenings. On the first evening, she wrote  $\frac{6}{10}$  and on the second evening she wrote the rest.
  - a) How many words did she write on the first evening?
  - b) How many words did she write on the second evening and what fraction was this?
2. Two families, the Smiths and the Taylors, go to a restaurant for a meal. At the end of the night, when they pay their \$100 bill, they use a 50% off coupon, which halves their bill. They then split the remaining amount equally between the two families.
  - a) How much does the bill come to after using the coupon?
  - b) How much of the remaining bill do each family pay?
3. There were 120 school children going on a school field trip. There were 2 buses, each carrying  $\frac{1}{2}$  of the children. On coach B,  $\frac{1}{6}$  of the children had sweaters with them.
  - a) How many children were on each bus?
  - b) How many children had sweaters on bus B?
4. A retired couple won \$400 on the lottery. They decided to give  $\frac{3}{4}$  to their family and to spend  $\frac{1}{4}$  on a day out for themselves.
  - a) How much money did the couple give to their family?
  - b) How much money did they spend on their day out?
5. Jane watched a movie that was 1 hour long.  $\frac{5}{6}$  of the way through the film, the doorbell rang. She paused the movie to answer the door and discovered it was the mailman with a parcel.
  - a) How many minutes of the movie had she watched before the mailman arrived?
  - b) How many minutes of the movie did she have left to watch?
6. A cake maker is frosting a wedding cake that needs three different sized tiers. The frosting weighs 2000g. He uses  $\frac{6}{10}$  of the frosting for the bottom tier,  $\frac{3}{10}$  of the frosting for the middle tier and  $\frac{1}{10}$  of the frosting for the top tier.
  - a) What is the weight of frosting on the bottom tier?
  - b) What is the weight of frosting on the middle tier?
  - c) What is the weight of frosting on the top tier?

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7. A dressmaker has 10m of fabric to make an outfit. He makes a bag with  $\frac{1}{10}$  of the fabric, a skirt with  $\frac{1}{2}$  of the fabric and a top with the rest.
- How much fabric is used for the bag?
  - How much fabric is used for the skirt?
  - How much fabric is used for the top and what is this as a fraction of the total fabric?
8. A chef ordered twenty four eggs for her restaurant.  $\frac{1}{12}$  of the eggs were used for a chocolate brownie special and  $\frac{1}{4}$  of the eggs were used for cooked breakfasts. From the remainder,  $\frac{1}{2}$  of the eggs were used for the meringue in a lemon meringue pie.
- How many eggs were used for the chocolate brownie?
  - How many eggs were used for the breakfasts?
  - How many eggs were used for the lemon meringue pie?
  - How many eggs were left?
9. At the regional running championships, a school won 12 medals.  $\frac{1}{2}$  of the medals were gold,  $\frac{1}{3}$  of the medals were silver and  $\frac{1}{6}$  of the medals were bronze.
- How many medals were gold?
  - How many medals were silver?
  - How many medals were bronze?
10. At the local triathlon, which includes cycling, running and swimming, competitors travel a total distance of 15km.  $\frac{2}{3}$  of the distance is cycling.
- How far do the competitors cycle?
  - What distance is left for running and swimming?

# Fractions of Amounts Word Problems **Answers**

Sarah entered a 100-word story competition. She wrote her story over two evenings. On the first evening, she wrote  $\frac{6}{10}$  and on the second evening she wrote the rest.

- a) How many words did she write on the first evening? **60 words**
- b) How many words did she write on the second evening and what fraction was this? **40 words =  $\frac{4}{10}$  or  $\frac{2}{5}$**

1. Two families, the Smiths and the Taylors, go to a restaurant for a meal. At the end of the night, when they pay their \$100 bill, they use a 50% off coupon, which halves their bill. They then split the remaining amount equally between the two families.

- a) How much does the bill come to after using the coupon? **\$50**
- b) How much of the remaining bill do each family pay? **\$25 each**

2. There were 120 school children going on a school field trip. There were 2 buses, each carrying  $\frac{1}{2}$  of the children. On coach B,  $\frac{1}{6}$  of the children had sweaters with them.

- a) How many children were on each bus? **60 children on each bus**
- b) How many children had sweaters on bus B? **10 children**

3. A retired couple won \$400 on the lottery. They decided to give  $\frac{3}{4}$  to their family and to spend  $\frac{1}{4}$  on a day out for themselves.

- a) How much money did the couple give to their family? **\$300**
- b) How much money did they spend on their day out? **\$100**

4. Jane watched a movie that was 1 hour long.  $\frac{5}{6}$  of the way through the film, the doorbell rang. She paused the movie to answer the door and discovered it was the mailman with a parcel.

- a) How many minutes of the movie had she watched before the mailman arrived? **50 minutes**
- b) How many minutes of the movie did she have left to watch? **10 minutes**

A cake maker is frosting a wedding cake that needs three different sized tiers. The frosting weighs 2000g. He uses  $\frac{6}{10}$  of the frosting for the bottom tier,  $\frac{3}{10}$  of the frosting for the middle tier and  $\frac{1}{10}$  of the frosting for the top tier.

- a) What is the weight of frosting on the bottom tier? **1200g**
- b) What is the weight of frosting on the middle tier? **600g**
- c) What is the weight of frosting on the top tier? **200g**

# Fractions of Amounts Word Problems **Answers**

A dressmaker has 10m of fabric to make an outfit. He makes a bag with  $\frac{1}{10}$  of the fabric, a skirt with  $\frac{1}{2}$  of the fabric and a top with the rest.

- How much fabric is used for the bag? **1m**
- How much fabric is used for the skirt? **5m**
- How much fabric is used for the top and what is this as a fraction of the total fabric? **4m =  $\frac{4}{10}$  or  $\frac{2}{5}$**

A chef ordered twenty four eggs for her restaurant.  $\frac{1}{12}$  of the eggs were used for a chocolate brownie special and  $\frac{1}{4}$  of the eggs were used for cooked breakfasts. From the remainder,  $\frac{1}{2}$  of the eggs were used for the meringue in a lemon meringue pie.

- How many eggs were used for the chocolate brownie? **2**
- How many eggs were used for the breakfasts? **6**
- How many eggs were used for the lemon meringue pie? **8**
- How many eggs were left? **8**

At the regional running championships, a school won 12 medals.  $\frac{1}{2}$  of the medals were gold,  $\frac{1}{3}$  of the medals were silver and  $\frac{1}{6}$  of the medals were bronze.

- How many medals were gold? **6**
- How many medals were silver? **4**
- How many medals were bronze? **2**

5. At the local triathlon, which includes cycling, running and swimming, competitors travel a total distance of 15km.  $\frac{2}{3}$  of the distance is cycling.

- How far do the competitors cycle? **10km**
- What distance is left for running and swimming? **5km**