

Multi-Step Word Problems

Fractions of Amounts

- Sarah entered a 100-word story competition. She wrote her story over two evenings. On the first evening, she wrote $\frac{6}{25}$ and on the second evening she wrote the rest.

 - How many words did she write on the first evening?
 - How many words did she write on the second evening and what fraction was this?
- 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 voucher, which halves their bill. They then split the remaining amount equally between the two families.

 - How much does the bill come to after the discount voucher?
 - How much does each family pay after the discount voucher has been deducted?
- There were 120 school children going on a school residential trip. There were 2 coaches, each carrying $\frac{1}{2}$ of the children. On coach B, $\frac{1}{4}$ of the children had medication with them.

 - How many children were on each coach?
 - How many children had medication on coach B?
- A retired couple won £400 on the lottery. They decided to give $\frac{3}{8}$ to their family and to spend $\frac{1}{4}$ on a weekend away for themselves.

 - How much money did the couple give to their family?
 - How much money did they spend on their weekend away?
- Jane watched a film that was 1 hour long. $\frac{5}{8}$ of the way through the film, the doorbell rang. She paused the film to answer the door and it was the postman with a parcel.

 - How many minutes of the film had she watched before the postman arrived?
 - How many minutes of the film did she have left to watch?
- A cake maker is icing a wedding cake that needs three different sized tiers. The icing has a mass of 2000g. He uses $\frac{1}{8}$ of the icing for the bottom tier, $\frac{3}{8}$ of the icing for the middle tier and $\frac{1}{8}$ of the icing for the top tier.

 - What is the mass of the icing in the bottom tier?
 - What is the mass of the icing in the middle tier?
 - What is the mass of the icing in the top tier?

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 an Eton Mess pudding.
- How many eggs were used for the chocolate brownie?
 - How many eggs were used for the breakfasts?
 - How many eggs were used for the Eton Mess?
 - How many eggs were left?
9. At the county 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?