

# Two-Step Word Problems Percentage of Amounts

Aim: I can solve two-step word problems involving percentages.

1. A farmer harvests 850kg of parsnips. 30% go to the local market and 50% go to a local supermarket. What mass of parsnips are left?

2. A plumber has 150m of pipes. The plumber uses 20% fitting a central heating system, and then 25% of what is left to fit a bathroom. How much pipe does the plumber use to fit the bathroom?

3. A library has 2500 books. 40% of the books are fiction. How many books are not fiction books?

4. A cyclist rides 460 miles each week in training. She covers 30% of the miles in one ride. How many miles are left after 1 ride?

5. A charity raises £1740 at an auction. 20% of the money was raised by auctioning one item. How much did the rest of the auction raise?

6. 680 pupils attend a primary school. 20% of the children are in the Foundation Stage and 25% are in Key Stage 1. How many children are in Key Stage 2?

7. Janek's height increases by 10% each year for two years. At the beginning of those two years, he was 120cm tall. How tall is he at the end of the two years?

8. 90 000 people attend the FA cup final. 10% are not fans of either team. 50% of the remaining fans are from each team. How many fans from each team attend the final?

9. 450g of flour is needed for a cake recipe. A new packet of 2kg flour is used. 20% of the remaining flour is used to make some pastry. How much flour is used to make pastry?

10. There are 450 chairs in a school. 80% of the chairs are in good condition. Of the remaining chairs, 40% need to be thrown away. How many chairs need to be thrown away?

### Challenge

Write some simple two-step word problems involving percentages for a partner.