

Word problems

Name _____

Date _____

Read each problem, set out the calculation or equation and write a complete answer.

1. A robot travels along two straight sections, making a right-angle turn between them. It covers 17 metres in total and finishes 13 metres from its starting point in a straight line. How long is the shorter section?

2. An auditorium has 6 seats in its first row, with each subsequent row containing 2 more seats than the row before. There are 104 seats altogether. How many rows does the auditorium have?

3. In a number puzzle, the digits of a two-digit number add up to 11. Reversing the digits produces a number that is 27 less than the original. What is the original number?

4. Tank A contains three-quarters as much water as tank B. When 12 litres are transferred from B to A without any water being lost, the tanks contain equal amounts. How many litres of water do the two tanks contain altogether?

5. Two lamps originally cost £150 altogether. The price of one is reduced by 20%, while the price of the other is increased by 10%. Together they now cost £144. What was the original price of the lamp that was reduced?
