

Word problems

Name _____

Date _____

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

1. A rectangular garden has an area of 84 m^2 . Its length is 5 m greater than its width. What is the width of the garden?

2. Two pumps working together empty a tank in two hours. Working alone, the slower pump would take three hours longer than the faster one. Both operate at constant rates. How long would the faster pump take to empty the tank alone?

3. A quiz awards four points for a correct answer and deducts one point for an incorrect answer. A contestant answers all 20 questions and finishes with 50 points. How many answers were correct?

4. A hall has 48 chairs arranged in equal rows. They are rearranged into two fewer rows, with four more chairs in each row. Every chair is used in both arrangements. How many rows were there originally?

5. In a ticket-sales model, a £10 ticket attracts 200 buyers. For every £1 reduction, the model predicts 40 additional buyers, with the increase proportional to the reduction. Tickets must cost at least £8. What reduced ticket price gives a predicted income of £2,160?
