

## Solving word problems (4)

Solve multi-step problems involving number and money, deciding which operations to use and why



- 1 Three classes of the same size went on a trip to a local museum. The total cost was £472.50. What was the cost per class?
- 2 The school had a budget of £12 980 for new computers. It spent £5874 on new computers for Year 5. How much was left?
- 3 Shelina plays her new computer racing game twice. On the first game she scores 67 436, and on the second game she scores 75 557.

- a What was her total score?
- b By how many did she improve her score by?



- 4 A garage has a new model of car for sale priced at £8650. On Saturday they sell 3 of them. What was the total price?

- 1 The school bought a climbing frame and two sets of bikes for the reception classes. The total cost was £13 894. If the climbing frame cost £5065, what was the cost of each set of bikes?



- 2 Ethan has been playing his favourite computer game.
  - a His score for 2 days came to 234 785. His best score was on Monday when he scored 130 926. What was his score for the other day?
  - b When Ethan meets his friend they compare scores. His friend's best score was 78 653 more than Ethan's best score. What was his friend's score?
- 3 Two friends are comparing their 6-digit computer scores. The difference between them is 145 780. What could the two scores have been? Give two possible answers.

- 4 A garage sells 4 cars on Saturday – 2 of one model and 2 of another model. The total sales come to £52 766. The price for 1 of the first model of cars is £9765. How much does 1 of the other models cost?
- 5 Last summer, 3 classes of the same size went on a residential trip for a week. The cost for the 3 classes was £7222.50, plus £540 for transport. What was the total cost per class?



### Challenge 3

- 1 Read Question 5 in Challenge 2. If there were 30 children in each class what was the cost per child?
- 2 The school spent £17 870 on 3 new whiteboards and a sound system. The sound system cost £8450. How much did each whiteboard cost?
- 3 On a maths challenge website, the pupil with the most points has a score of 478 392. This is 36 547 more than the second highest scorer and 294 609 more than the lowest scorer. What are the second highest and lowest scores?
- 4 Amy has been working really hard at her maths challenge scores. On Monday she scored 128 763, on Tuesday she increased this by 68 534, and on Wednesday she increased her total again. By the end of Wednesday her score was 281 872.
  - a How much did she increase her score in total?
  - b How much did she increase her score on Wednesday?
- 5 A taxi company has a budget of £100 000 to buy new cars – either all five-seater cars or all seven-seater cars. The five-seater cars cost £7545 and the seven-seater cars cost £8920. How many of each kind of car could they buy? Provide the taxi company with more than one alternative.

