

# Addition and subtraction review

- Add and subtract mentally and using the formal written methods
- Solve problems involving addition, subtraction, multiplication and division

## Challenge 1

1 Work out these calculations, deciding the best method to use. Be sure to estimate the answer first and check your answer with your estimate.

a  $45\ 872 + 6721$

b  $31\ 761 + 5000$

c  $67\ 541 - 42\ 961$

d  $74\ 293 - 30\ 000$

e  $365\ 297 - 4000$

f  $287\ 651 + 50\ 000$

g  $751\ 296 - 42\ 807$

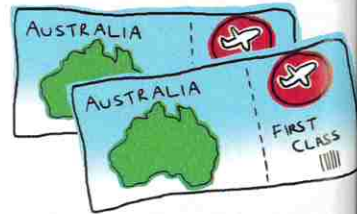
h  $482\ 396 + 628\ 385$

2 Solve these problems.

a The Ticket Centre sells two peak time first-class return tickets to Australia for £15 870, and four tickets for £29 500. The Gould family buy two sets of two tickets, while the Herne family buy a ticket for four. How much more does the Gould family pay than the Herne family?

b At the cinema, 3782 children go to see the new film. Each ticket costs £4. How much money does the cinema take?

c One week a gardener earns £630 for his work. If he charges £18 an hour, how many hours did he work that week?



## Challenge 2

1 Work out these calculations, deciding the best method to use. Be sure to estimate the answer first and check your answer with your estimate.

a  $4\ 873\ 207 + 372\ 206$

b  $7\ 286\ 296 - 5382$

c  $3\ 287\ 461 + 70\ 000$

d  $5\ 762\ 286 - 8100$

e  $2\ 762\ 067 - 36\ 842$

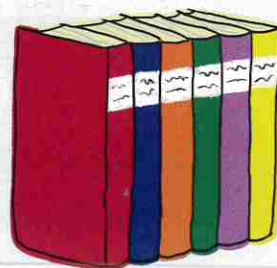
f  $482\ 295 + 300\ 000$

g  $2\ 265\ 207 + 230\ 000$

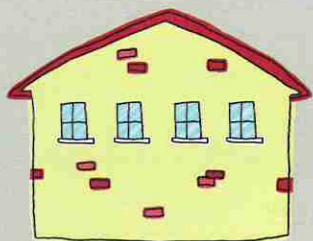
h  $726\ 296 - 18\ 000$

## 2 Solve these problems.

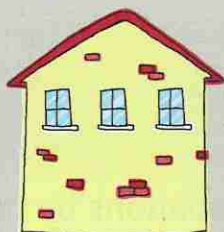
- a Three friends go into a bookshop. Salma buys a cookbook and a novel. She pays £20.75. Isla buys the same novel and a dictionary. Her bill comes to £26.65. Josh buys the cookbook and the dictionary and pays £30.90. What is the price of each book?
- b One film made £4 762 359, a second film made double this, and another film made £781 207. What was the total money taken for these three films?
- c The school puts on a play to raise money. Tickets cost £12. A total of 98 people buy full-price tickets and 243 people buy half-price tickets. How much money is raised?



The surveyor is working out the costs to build some new houses. These are her prices.



Four-bedroom houses  
at £356 400



Three-bedroom houses  
at £287 695



Two-bedroom houses  
at £207 830

- 1 The builder has £5 000 000 to spend.
  - a If he only builds one kind of house, how many of each one will he be able to build?
  - b If he builds approximately the same number of each kind of house, how many of each one can he build?

### Hint

As the builder needs the money he decides to round the prices to the nearest pound.

- 2 The builder wants to make a nice profit when he sell his houses. So for the asking price of each house he has decided on the following:

- i Four-bedroom houses: building cost + 20%
- ii Three-bedroom houses: building cost +10%
- iii Two-bedroom houses: building cost +15%

Work out the asking price of each type of house.

