

# FOR THE STUDENT

*Comprehensive Assessment of Mathematics Strategies (CAMS Series)* is a maths program that gives you practice with 12 maths strategies. In *Comprehensive Assessment of Mathematics Strategies, Book 3*, you will complete ten maths lessons. Each lesson has a maths theme and questions about the theme. Each question provides you with practice of a particular maths strategy. After you have finished the first five lessons, you will complete a self-assessment. The self-assessment will help you determine how well you are doing and what goals you need to set to improve your maths skills. After you finish the last five lessons, you will complete another self-assessment. This self-assessment will help you determine how well you met your goals. *Comprehensive Assessment of Mathematics Strategies, Book 3* can help you become a better problem-solver. You will come to understand the important information you must look for as you prepare to solve any and all problems.

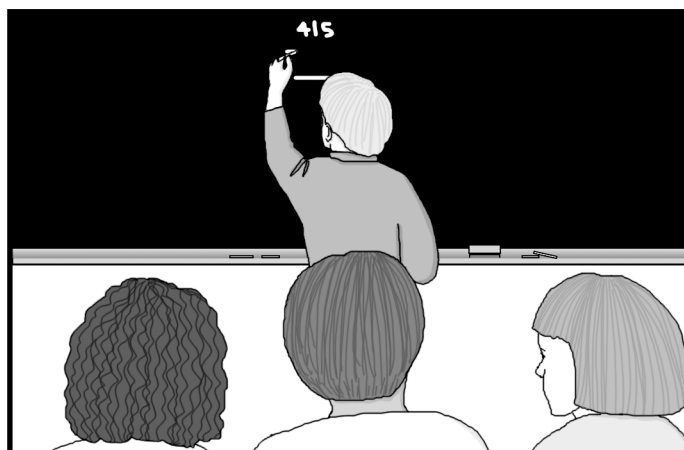
This *Comprehensive Assessment of Mathematics Strategies* book was prepared for students by Robert G. Forest.

Illustrations by Susan Hawk (top, pages 2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 31)

# LESSON 1

## Jason and his maths team

Jason belongs to a year-three maths team that has a total of four members. They like to solve maths problems. They sometimes create problems for other maths students to solve. Now do numbers 1 to 12.



1. Jason wrote the number of the last page in his maths book. The number he wrote was 289. If there was one more page of text, what number would he have written?
- (A) 290  
(B) 280  
(C) 289  
(D) 278
2. Use information from problem 1 to solve this problem.
- Each member of Jason's maths team has a maths book. Estimate the total number of pages that are in the four maths books.
- (A) 800  
(B) 1000  
(C) 1200  
(D) 1600
3. Ms Carney asked Jason to determine the sum of 24 and 41. What was Jason's correct solution?
- (A) 65  
(B) 69  
(C) 55  
(D) 59
4. Jason and the members of his team solved these subtraction problems. Which member got a difference that is less than 206?
- |  |  |  |  |
|--|--|--|--|
| $\begin{array}{r} 415 \\ -204 \\ \hline \end{array}$ | $\begin{array}{r} 327 \\ -115 \\ \hline \end{array}$ | $\begin{array}{r} 432 \\ -211 \\ \hline \end{array}$ | $\begin{array}{r} 527 \\ -323 \\ \hline \end{array}$ |
| Jason  | Maria  | Li An  | Tomas  |
- (A) Li An  
(B) Tomas  
(C) Jason  
(D) Maria

5. Each student in Jason's maths class is on a team. There are 5 teams. If each team has 4 members, what is the total number of students in the class?

- (A) 15
- (B) 12
- (C) 20
- (D) 24

7. Jason's team created the following problem for the other teams to solve.

<b>DESSERT MENU</b>	
Ice-cream . . . . .	35 c
Biscuit . . . . .	30 c
Fruit salad . . . . .	40 c
Cake slice . . . . .	45 c

At lunch, Tran bought one item from the dessert menu. He gave the cashier a 50-c piece and received a 10-c piece in change. Which item did Tran buy?

- (A) ice-cream
- (B) biscuit
- (C) fruit salad
- (D) cake slice

6. You will need information from problem 5 to solve this problem.

Ms Carney handed out new pencils to all the maths students. Each student received the same number of pencils. If she passed out 60 pencils, how many pencils did each student receive?

- (A) 5 pencils
- (B) 2 pencils
- (C) 4 pencils
- (D) 3 pencils

8. Jason's team measured the length of their classroom. They found that the room was 60 metres long. Which measurement is the same length as 60 metres?

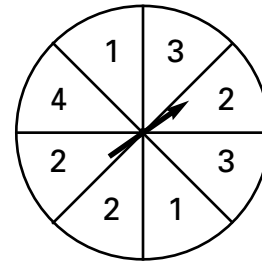
- (A) 600 millimetres
- (B) 60 millimetres
- (C) 60 centimetres
- (D) 600 centimetres

9. Jason's maths team developed the following pattern. What number is missing from the pattern?



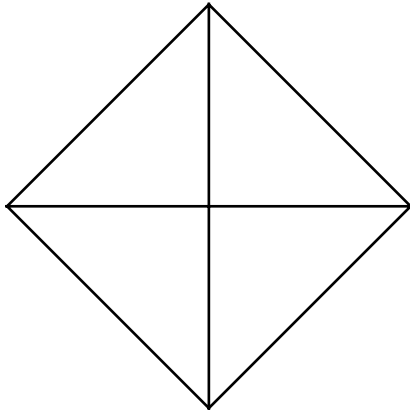
- (A) 10
- (B) 9
- (C) 4
- (D) 8

11. Jason's maths team created a spinner for a maths game. If Jason spins the spinner, on which number is the arrow most likely to stop?



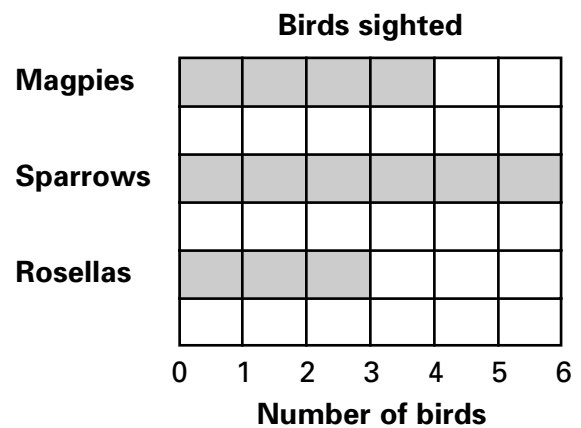
- (A) 1
- (B) 2
- (C) 3
- (D) 4

10. Jason drew the following figure. How many triangles appear in Jason's figure?



- (A) 10
- (B) 12
- (C) 8
- (D) 14

12. Jason's team recorded the number and kinds of birds spotted on a nature walk. They created a bar graph to show their findings. Which statement about the graph is true?

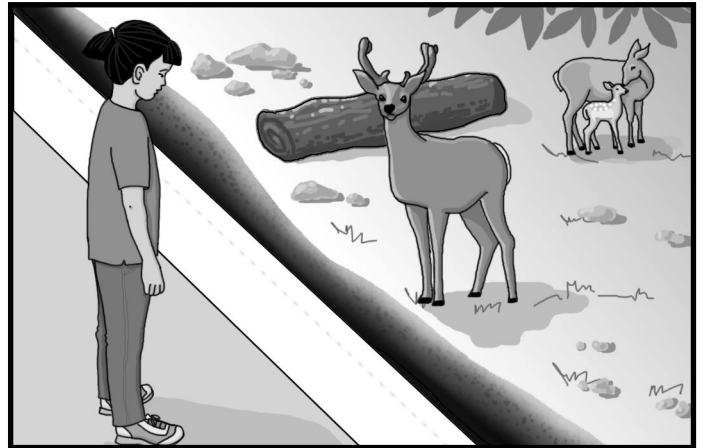


- (A) Magpies were sighted the most.
- (B) No more than 12 birds were sighted.
- (C) Twice as many sparrows as rosellas were sighted.
- (D) Magpies were sighted the least.

# LESSON 2

## Alice goes to the zoo

Alice and her classmates went on a field trip to the Midtown Zoo. They spent most of the time viewing the mammal and reptile exhibits. Now do numbers 1 to 12.



1. Alice learned that the Midtown Zoo is home to the number of mammals written on the sign below. Which digit is in the thousands place?

**2054**  
Mammals

- (A) 4
- (B) 5
- (C) 0
- (D) 2

3. Alice counted 5 deer in the wooded area of a large pen. Peter counted 4 deer lying down in the shelter. What is the total number of deer counted by both children?

- (A) 8 deer
- (B) 9 deer
- (C) 7 deer
- (D) 10 deer

2. Lions and tigers are two kinds of mammals at the zoo. There are 38 lions and 22 tigers. Which of these is the best estimate of the total number of lions and tigers?

- (A) 60
- (B) 70
- (C) 40
- (D) 30

4. There were 11 monkeys swinging from the roof of a large cage. Soon, 3 monkeys jumped to the ground. How many monkeys remained swinging from the roof?

- (A) 13 monkeys
- (B) 9 monkeys
- (C) 14 monkeys
- (D) 8 monkeys