

# FOR THE STUDENT

*Comprehensive Assessment of Mathematics Strategies II (CAMS Series II)* is an assessment program that gives you practice with 12 maths strategies. In *Comprehensive Assessment of Mathematics Strategies II, Book 4*, you will complete five maths lessons. Each lesson has a maths theme and 12 questions about the theme. Each question helps you practise a particular maths strategy; however, the strategy is not named. See if you can figure out the maths strategy as you solve the problem. After you have finished the five lessons, complete the self-assessment. The self-assessment will help you determine how well you met your goals to improve your maths skills. *Comprehensive Assessment of Mathematics Strategies II, Book 4* can help you become a better problem solver. You will come to understand the important information you must look for as you solve any and all problems.

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

Illustrations by Susan Hawk

# LESSON 1

## Mario and the pet store

Mario is interested in all kinds of animals. Mario helps out at his aunt's pet store whenever he can. He feeds the animals and cleans the cages and sometimes helps Aunt Olga to take payments and give change. Mario also uses the Internet to find information about all kinds of animals, especially endangered species.



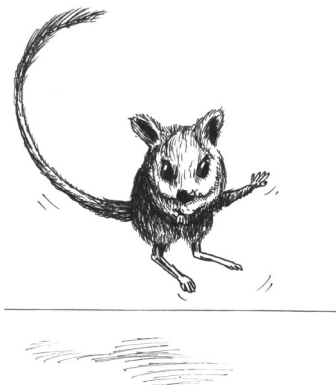
1. Mario counted 2065 containers of tropical-fish food. What is the word form for this number?
- (A) two hundred and sixty-five
  - (B) two thousand and sixty-five
  - (C) two thousand, six hundred and fifty
  - (D) two thousand, six hundred and five

3. A customer bought one container of tropical fish food for \$2.10, a small fish tank for \$15.25 and a goldfish for \$1.45. What did Mario charge the customer for the three items?

- (A) \$17.60
- (B) \$17.80
- (C) \$18.80
- (D) \$18.60

2. The estimated number of native hopping-mice in Australia today is 5800. Mario found this number during his research on native animals. Which number below is an exact number that rounds to 5800?

- (A) 5924
- (B) 5862
- (C) 5436
- (D) 5798



4. Aunt Olga's dog is 6 years old. Mario learned that the dog's age is equivalent to 42 years in humans. What is the difference in years between the human age and the dog age?

- (A) 44 years
- (B) 34 years
- (C) 46 years
- (D) 36 years

5. Mario placed 16 bags of dog food on a storage shelf. Each package weighs 5 kilograms. How many kilograms of food did Mario place on the shelf?

- (A) 80 kilograms
- (B) 90 kilograms
- (C) 100 kilograms
- (D) 70 kilograms

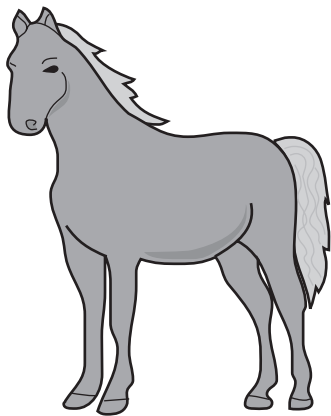
7. A customer bought one angelfish. Study the coins to learn the exact amount she paid Mario.



- (A) \$4.65
- (B) \$5.20
- (C) \$4.75
- (D) \$5.15

6. Mario learned that a horse's age is equivalent to 3 years in humans. What age of a horse is equivalent to 36 human years?

- (A) 8 years
- (B) 6 years
- (C) 14 years
- (D) 12 years



8. Mario refilled the water containers in the bird cages. He used 4 litres of water. How many cups of water did he use?

1 cup = 250 millilitres  
1000 millilitres = 1 litre

- (A) 4 cups
- (B) 16 cups
- (C) 8 cups
- (D) 32 cups

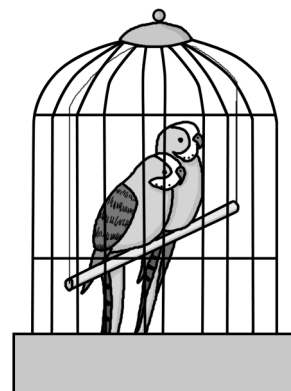
9. Mario created the number pattern shown in the box. Work out the pattern and find the missing number. The missing number is the same as the number of kittens that are for sale at the pet shop. How many kittens are for sale?

33, 28, 23, \_\_, 13





- (A) 18 kittens
- (B) 20 kittens
- (C) 16 kittens
- (D) 21 kittens

11. Aunt Olga sells parakeets in 3 colours: green, blue and yellow. She also sells 2 kinds of bird cages. If a customer wishes to buy a parakeet and a cage, from how many different combinations of bird colour and cage can the customer choose?

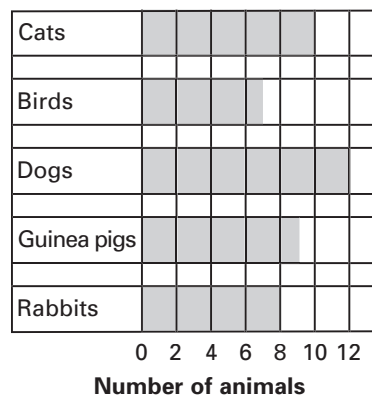
- (A) 2
- (B) 4
- (C) 6
- (D) 8



10. Mario sells fish food in containers that are shaped like a cylinder. Which figure below is a cylinder?

- (A) 
- (B) 
- (C) 
- (D) 

12. Mario drew a bar graph to show the number of animals sold during one week. Study the graph. What is the total number of dogs and cats that were sold?

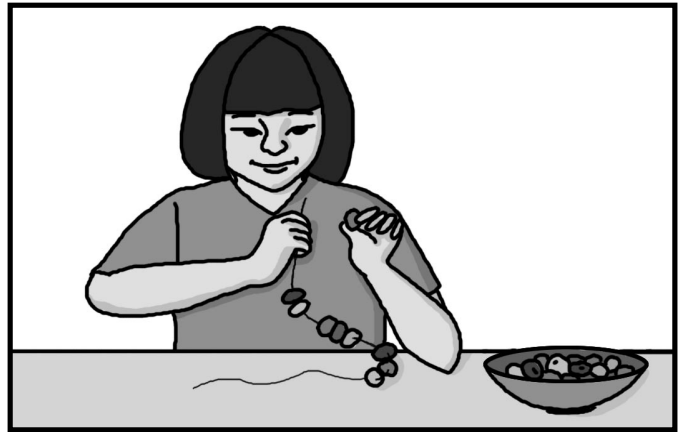


- (A) 20 dogs and cats
- (B) 22 dogs and cats
- (C) 17 dogs and cats
- (D) 19 dogs and cats

# LESSON 2

## A crafty person

Sachi is a very talented student. She creates many beautiful arts and crafts, from sewing to bead work. Many of her original creations were sold recently at the school fete. Sachi is talented not only with her hands, but also with her mind. She plays chess well and she also creates trivia games.

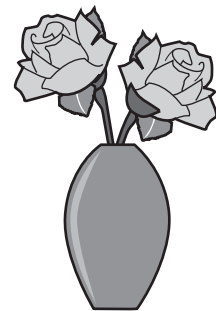


1. Sachi has a total of 2786 wooden beads of various colours. She uses the beads for making necklaces and bracelets. In the number 2786, what is the value of the 7?

- (A) 7
- (B) 70
- (C) 700
- (D) 7000

3. Sachi made 36 red paper roses to create a centerpiece, 48 pink paper roses to decorate a noticeboard and 27 yellow paper roses to fill a vase. How many paper roses did Sachi make in all?

- (A) 111 roses
- (B) 101 roses
- (C) 92 roses
- (D) 102 roses



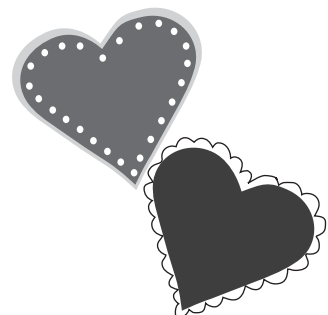
2. You will need information from problem 1 to solve this problem.

When asked about the number of beads she has, Sachi gave an answer rounded to the nearest thousand. What was her answer?

- (A) 2800
- (B) 3100
- (C) 2000
- (D) 3000

4. Sachi created a valentine display. She made 56 heart-shaped figures. She painted 27 of them pink. The others she painted red. How many heart-shaped figures did she paint red?

- (A) 39 figures
- (B) 28 figures
- (C) 29 figures
- (D) 38 figures

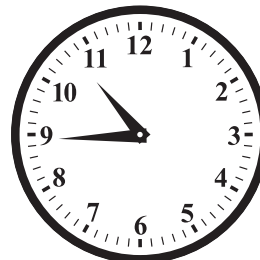


5. Sachi makes her own greeting cards. She recently made 11 boxes of birthday cards. Each box contains 15 cards. How many greeting cards did Sachi make?

- (A) 150 cards
- (B) 26 cards
- (C) 180 cards
- (D) 165 cards



7. Sachi and Lin started a chess game at the time shown on the clock. They ended the game 2 hours and 20 minutes later. What time did they finish?



- (A) 12.40
- (B) 1.25
- (C) 1.05
- (D) 12.55

6. Sachi decorates the borders of small picture frames with pasta shells. She then paints them gold. Sachi has 1290 pasta shells. She needs 46 shells to complete each picture frame. How many picture frames can Sachi complete with this number of shells?

- (A) 28 frames
- (B) 29 frames
- (C) 18 frames
- (D) 39 frames

8. The craft store is in a shopping centre that is 1.92 kilometres from Sachi's home. Which of these represents a round-trip visit to the shop from Sachi's home, expressed in metres?

1 kilometre = 1000 metres

- (A) 4360 metres
- (B) 3840 metres
- (C) 1920 metres
- (D) 2700 metres