



# AI TONG SCHOOL

2011

SEMESTRAL ASSESSMENT 2

PRIMARY 3

MATHEMATICS

DURATION : 1 h 30 min

DATE : 25 October 2011

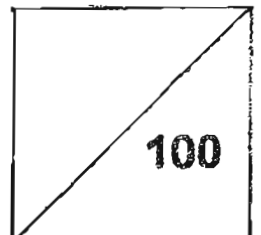
## INSTRUCTIONS

Do not open the booklet until you are told to do so.  
Follow all instructions.  
Answer all questions.

Name : \_\_\_\_\_ ( )

Class : Primary 3 \_\_\_\_\_

Marks:



Parent's Signature : \_\_\_\_\_

Date : \_\_\_\_\_

**Section A**

Questions 1 to 20 carry 2 marks each.

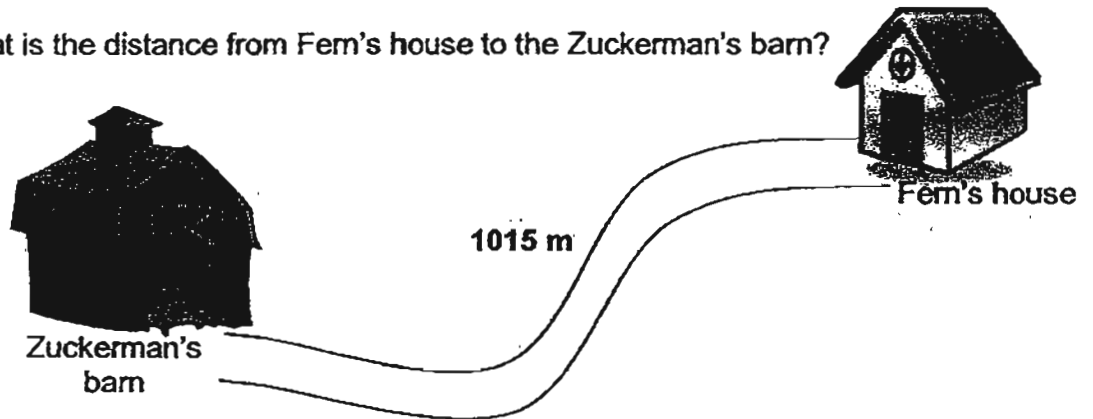
For each question, four options are given. One of them is the correct answer.

Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet with a 2B pencil. (40 marks)

1 In which of the following is the digit 7 in the tens place?

- (1) 9875
- (2) 7543
- (3) 5437
- (4) 3751

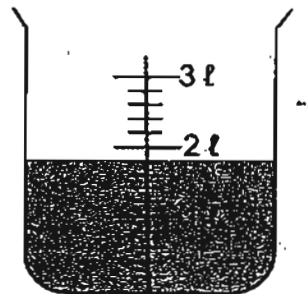
2 What is the distance from Fern's house to the Zuckerman's barn?



- (1) 0 km 115 m
- (2) 1 km 15 m
- (3) 1 km 115 m
- (4) 10 km 15 m

3 How much water is in the container?

- (1) 9 ml
- (2) 14 ml
- (3) 1400 ml
- (4) 1800 ml



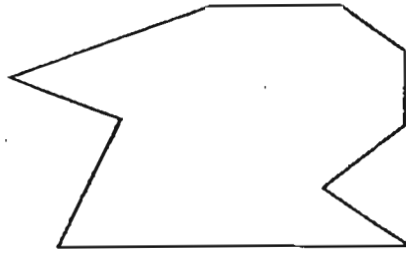
- 4 What is the length of the paper clip?



- (1) 2.5 cm  
(2) 2 cm  
(3) 3 cm  
(4) 3.5 cm
- 5 Which of the following fractions has the greatest value?

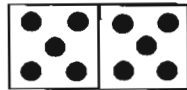
- (1)  $\frac{5}{9}$   
(2)  $\frac{5}{12}$   
(3)  $\frac{5}{7}$   
(4)  $\frac{5}{8}$

6 How many angles inside the figure below are **smaller** than right angles?

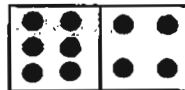


- (1) 0
- (2) 6
- (3) 3
- (4) 4

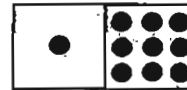
7 Amelia studied the cards below. ~~Which does not belong?~~  
Which card has a different sum



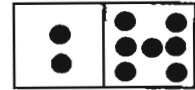
(1)



(2)

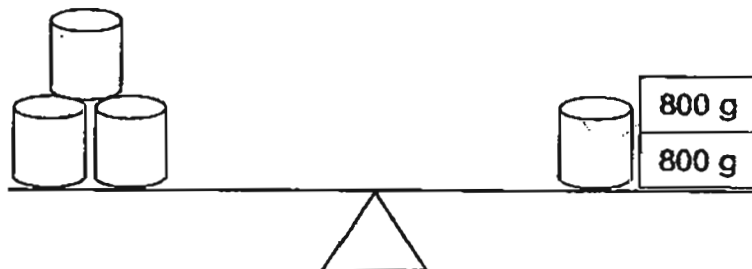


(3)



(4)

8 What is the total mass of 4  ?



- (1) 800 g
- (2) 1600 g
- (3) 2400 g
- (4) 3200 g

- 9 What is the difference in the mass of the duck and the rooster?



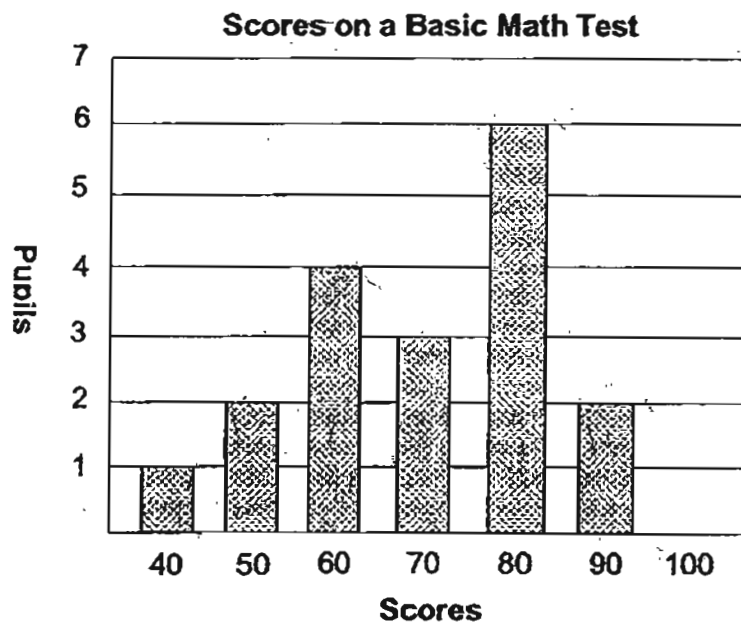
2730 g





3150 g

- (1) 400 g
- (2) 420 g
- (3) 1420 g
- (4) 5880 g

Study the graph below and answer question 10.



- 10 How many pupils took the Math test altogether?
- (1) 12
  - (2) 15
  - (3) 18
  - (4) 21

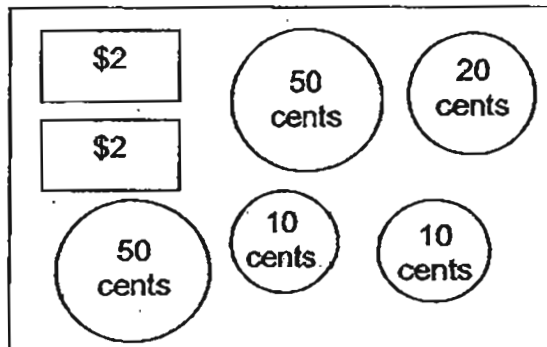
11 One  makes 25.  
How many  will make 150?

- (1) 5
- (2) 6
- (3) 3
- (4) 4

12 Javier bought a 1-litre tub of ice cream. He ate 2 scoops of ice cream. Each scoop contained 85 mL ice cream. How much ice cream was left?

- (1) 170 mL
- (2) 830 mL
- (3) 915 mL
- (4) 2000 mL

13 What is the value of the money shown in the box?



- (1) \$5.50
- (2) \$5.40
- (3) \$4.50
- (4) \$4.40

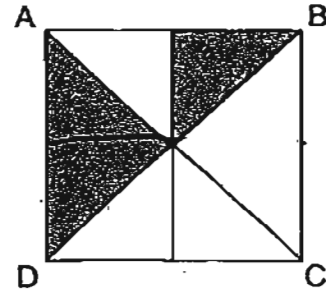
- 14 ABCD is a square.  
What fraction of the figure is shaded?

(1)  $\frac{2}{6}$

(2)  $\frac{3}{8}$

(3)  $\frac{2}{4}$

(4)  $\frac{3}{5}$



- 15 Mr Yeo grouped his pupils into 8 teams. There were 16 pupils in each team.  
How many pupils were there altogether?

(1) 8

(2) 2

(3) 24

(4) 128

- 16 Wei Bin left home at 8.30 a.m. to go for a hike. He arrived home 3 h 55 min later.  
What time did he reach home?

(1) 4.35 a.m.

(2) 12.25 p.m.

(3) 12.55 p.m.

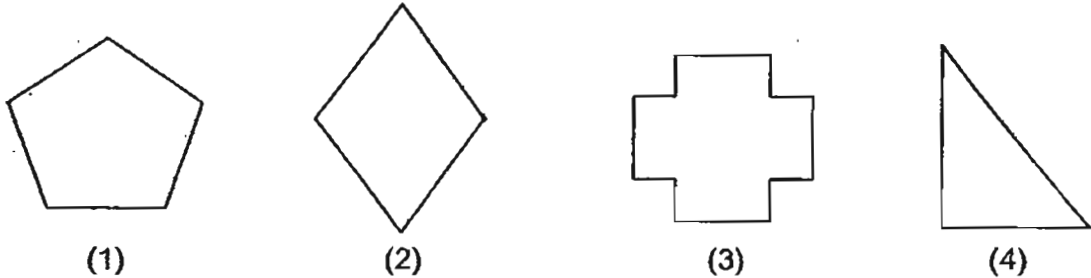
(4) 1.25 p.m.

- 17 There are 50 students in the Chess Club. The table below shows the number of boys and girls in each group. How many boys are in the Orange group?

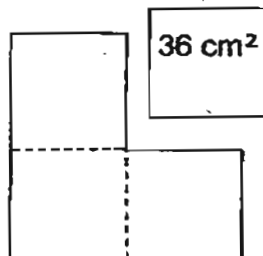
Group	Girls	Boys
Yellow	9	8
Purple	12	7
Orange	10	?

- (1) 35  
 (2) 31  
 (3) 15  
 (4) 4

- 18 Which of the following figures has **more than 2** pairs of parallel lines?



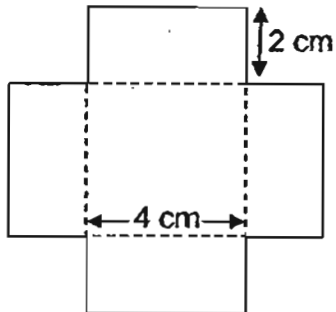
- 19 Kevin had a square piece of paper. He cut it into 4 equal smaller squares. The area of each smaller square is  $36 \text{ cm}^2$ . What is the **perimeter** of the original big square?



- (1) 6 cm  
 (2) 24 cm  
 (3) 48 cm  
 (4) 144 cm



- 20 The figure below is made up of 4 identical rectangles and a square.  
The figure below is not drawn to scale.  
Find the area of the figure.



- (1)  $8 \text{ cm}^2$
- (2)  $24 \text{ cm}^2$
- (3)  $32 \text{ cm}^2$
- (4)  $48 \text{ cm}^2$

**Section B**

Questions 21 to 40 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(40 marks)

21 Write two thousand and eleven in figures.

Ans: \_\_\_\_\_

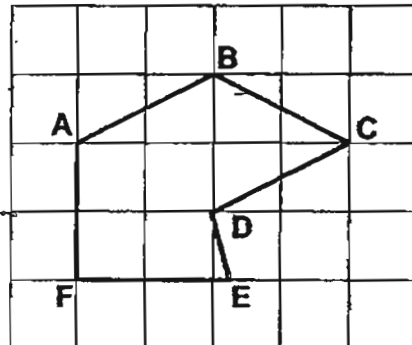
22 150 more than a number is 1975. What is the number?

Ans: \_\_\_\_\_

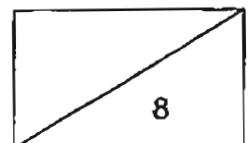
23 Divide 882 by 6. What is the quotient?

Ans: \_\_\_\_\_

24 In the figure, one of the lines is parallel to CD. Which line is parallel to CD?



Ans: \_\_\_\_\_



25 Write 3 kg and 9 g in g.

Ans: \_\_\_\_\_ g

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26 Karis exchanged \$15.50 for only 10 cent coins.  
How many 10 cent coins did she get?

Ans: \_\_\_\_\_

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27 A book has 20 pages. The sum of the digits of a 2-digit page number is 6. What is the page number?

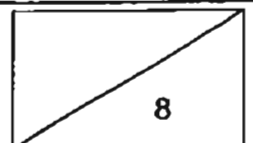
Ans: \_\_\_\_\_

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28 There were 180 passengers in a train when it arrived at Bishan station.  
62 passengers got off and 23 passengers got on.  
How many passengers were in the train when it left the station?

Ans: \_\_\_\_\_

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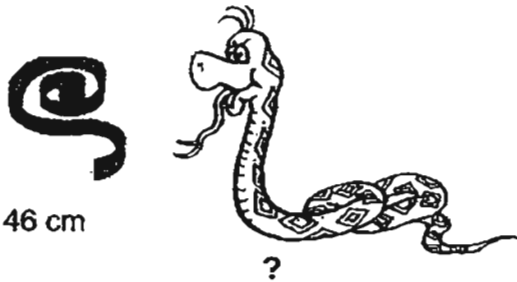


29. Use the digits 2, 5, 7 and 8 in place of A, B, C and D to make the multiplication true.

$$\begin{array}{r}
 \begin{array}{|c|} \hline A \\ \hline \end{array} \begin{array}{|c|} \hline B \\ \hline \end{array} \\
 \times \quad \begin{array}{|c|} \hline C \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline D \\ \hline \end{array} \begin{array}{|c|} \hline 0 \\ \hline \end{array} \\
 \hline
 \end{array}$$

Ans: A = \_\_\_\_\_  
 B = \_\_\_\_\_  
 C = \_\_\_\_\_  
 D = \_\_\_\_\_

30 The length of the snake is 5 times the length of the ribbon.  
 What is the length of the snake? Give your answer in m and cm.



Ans: \_\_\_\_\_ m \_\_\_\_\_ cm

31 Apples are sold as shown below. Amelia bought both China and U.S. apples. What is the maximum number of apples she can buy with \$9?

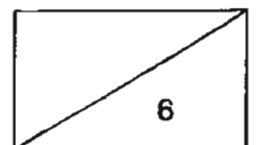


China Apples  
 3 for \$2



U.S. Apples  
 2 for \$3

Ans: \_\_\_\_\_



32. A large packet contains 550 ml of juice. A small packet contains 275 ml of juice. Nigel drank one packet of each. What is the total amount of juice he drank?

Ans: \_\_\_\_\_ ml

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33.  $\square - \frac{3}{8} = \frac{3}{8}$

What is the missing fraction in the box?  
Give your answer in the simplest form.

Ans: \_\_\_\_\_

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34. Arrange the following fractions from the biggest to the smallest.

$$\frac{1}{3}, \frac{2}{9}, \frac{3}{6}$$

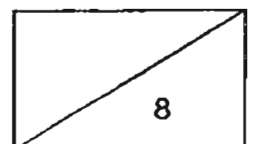
Ans: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

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35. A show ended at 2:20 p.m. It lasted 50 minutes. At what time did the show start?

Ans: \_\_\_\_\_ p.m.

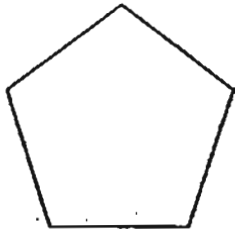
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- 36 Gavin started doing his homework at 3.40 p.m.  
He completed his homework at 5.25 p.m.  
How long did he take to do his homework?

Ans: \_\_\_\_\_ h \_\_\_\_\_ min

- 37 Study the figure below.  
How many sides does the figure have and how many angles are there inside the figure?





Ans: \_\_\_\_\_ sides \_\_\_\_\_ angles

38

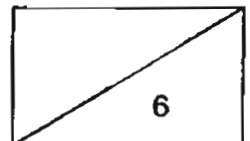
$$\text{Sun} + \text{Star} = 8$$

$$\text{Star} + \text{Sun} + \text{Star} = 13$$

 and  are different whole numbers.

What is  x  ?

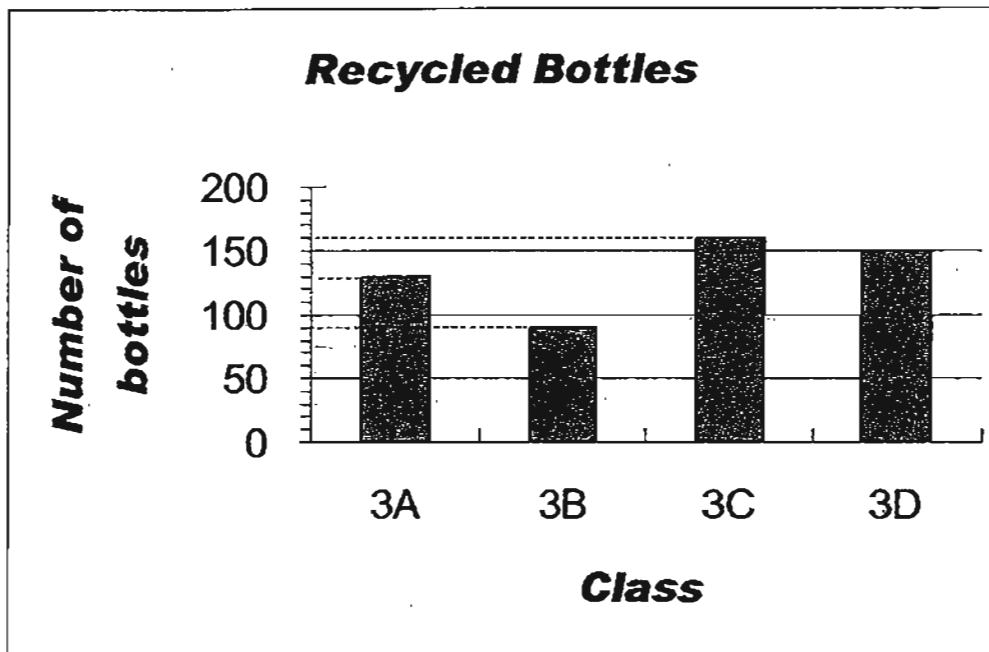
Ans: \_\_\_\_\_



39 The perimeter of a square is 36 cm. Find its area.

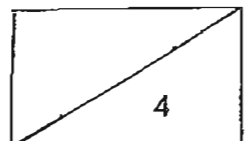
Ans: \_\_\_\_\_  $\text{cm}^2$

The graph below shows the number of bottles recycled by pupils in 4 classes. Study the graph and answer question 40.



40 The pupils need to recycle 600 bottles in all. How many more bottles do they need?

Ans: \_\_\_\_\_



**Section C**

Questions 41 to 45 carry 4 marks each. Show your working clearly in the space provided below each question and write your answers in the spaces provided. (20 marks)

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- 41 Justin's dad is three times as heavy as Justin. The sum of their mass is 132 kg.  
How much heavier is Justin's dad than Justin?

Ans: \_\_\_\_\_ [4]

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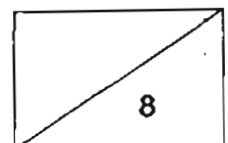
- 42 Some pupils and two teachers went for a concert. They paid a total of \$144 for the tickets. Each pupil paid \$6 for a ticket. The cost of an adult's ticket was twice that of a child's ticket.

- (a) How much was each adult's ticket?  
(b) How many pupils went for the concert?

Ans: (a) \_\_\_\_\_ [1]

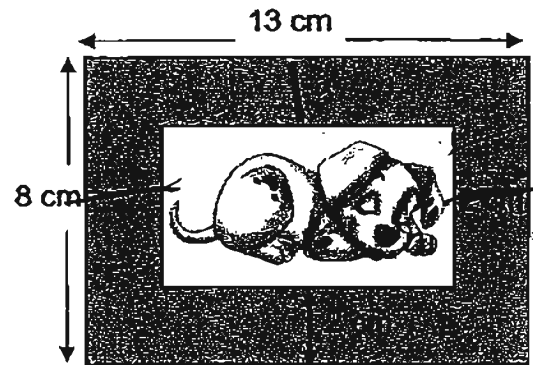
(b) \_\_\_\_\_ [3]

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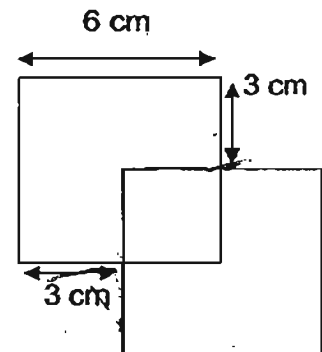
- 43 Li Yu pasted a picture onto a rectangular card, leaving a border of 2 cm all round. Find the area of the shaded part.



Ans: \_\_\_\_\_ [4]

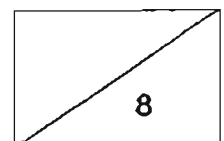
- 44 The figure is made up of 2 identical squares which overlap at one corner. Each square has a side of 6 cm.

- (a) Find the perimeter of the figure.  
 (b) Find the area of the figure.

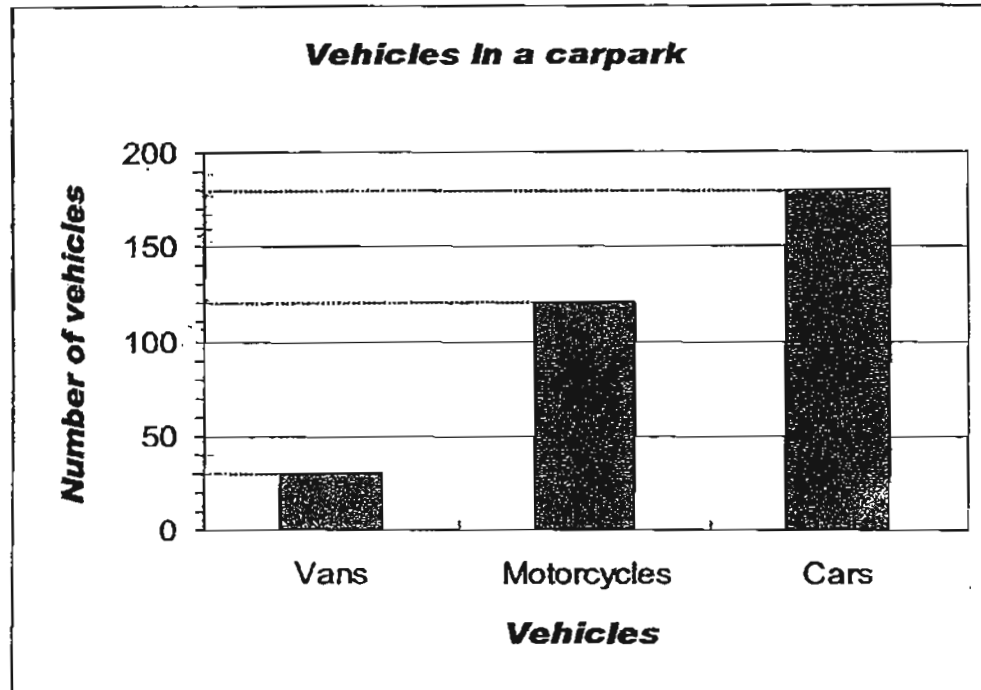


Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]



- 45 The graph below shows the number of vehicles parked in a carpark. Study the graph and answer the questions below.



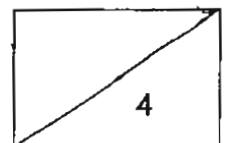
- (a) How many vehicles are there altogether?
- (b) The parking fee for each car is \$5. What is the total amount collected for all the cars?

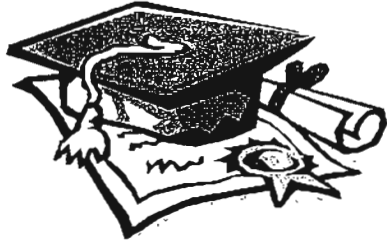
Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

End of Paper

😊 Please check your work carefully! 😊



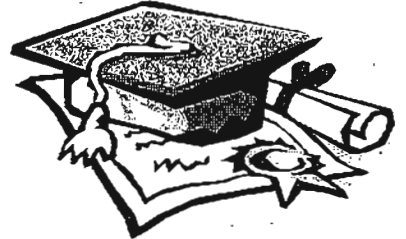


# ANSWER SHEET

**EXAM PAPER 2011**

**SCHOOL : AITONG**  
**SUBJECT : PRIMARY 3 MATHEMATICS**

**TERM : SA2**



Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
1	2	4	3	3	3	4	4	2	3	2	2	2	2	4	2

Q17	Q18	Q19	Q20
4	3	3	4

- 21)2011      22)1825      23)147      24)AB      25)3009g
- 26)155      27)15      28)141      29)A=8      B=5      C=2      D=7
- 30)2m 30cm      31)11      32)852ml      33)  $\frac{3}{4}$       34) $\frac{3}{6}$ ,  $\frac{1}{3}$ ,  $\frac{2}{9}$
- 35)1.30p.m.      36)1h 45min      37)5 sides 5 angles      38)15
- 39)81cm<sup>2</sup>      40)70
- 41)132 ÷ 4 = 33  
33 x 3 = 99  
99 - 33 = 66kg
- 42)a)\$6 x 2 = \$12  
b)\$12 + \$12 = \$24  
\$144 - \$24 = 120  
\$120 ÷ \$6 = 20
- 43)13 x 8 = 104  
104 - 36 = 68cm
- 44)a)6cm + 6cm + 6cm + 6cm +  
3cm + 3cm + 3cm + 3cm = 36cm  
b)72cm<sup>2</sup> - 9cm<sup>2</sup> = 63cm<sup>2</sup>
- 45)a)180 + 120 + 30 = 330  
b)180 x \$5 = \$900