



NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION  
2013

PRIMARY 3

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

Section A	/ 40
Section B	/ 40
Section C	/ 20

<b>Total:</b> / 100
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Name: \_\_\_\_\_ ( )

Class: Primary 3 ( )

Date: 29 October 2013

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

Any query on marks awarded should be raised by 6 November, 12 noon. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

**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.

(Total: 40 marks)

1. Seven thousand, three hundred and forty can be written as \_\_\_\_\_

- |          |          |
|----------|----------|
| (1) 7043 | (2) 7304 |
| (3) 7340 | (4) 7430 |

2. 5638 is the same as \_\_\_\_\_

- |                       |                      |
|-----------------------|----------------------|
| (1) $5000 + 600 + 38$ | (2) $5000 + 60 + 38$ |
| (3) $5000 + 63 + 8$   | (4) $500 + 630 + 8$  |

3. What is the quotient when 584 is divided by 8?

- |        |        |
|--------|--------|
| (1) 24 | (2) 63 |
| (3) 73 | (4) 84 |

4. Subtract \$25.75 from \$98.40.

- |              |          |
|--------------|----------|
| (1) \$72.65  | \$73.35  |
| (3) \$113.15 | \$124.15 |

5. Express 3 km 50 m in metres.

- |            |            |
|------------|------------|
| (1) 305 m  | (2) 350 m  |
| (3) 3050 m | (4) 3500 m |

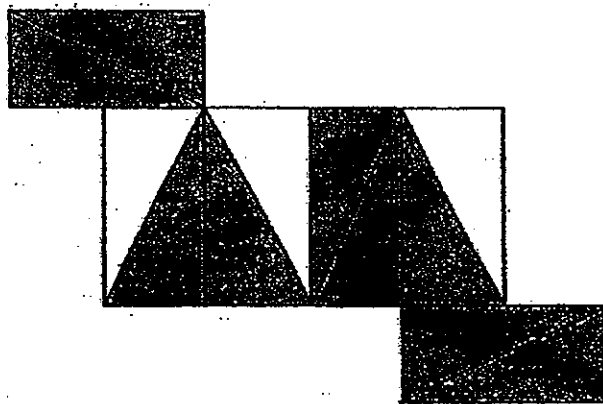
6. The duration of a Science Topical Test is 150 minutes.  
Express the duration of the test in hours and minutes.

- (1) 2 h 50 min                      (2) 2 h 30 min  
(3) 1 h 50 min                      (4) 1 h 30 min

7. Which one of the following fractions is not equivalent to  $\frac{2}{6}$ ?

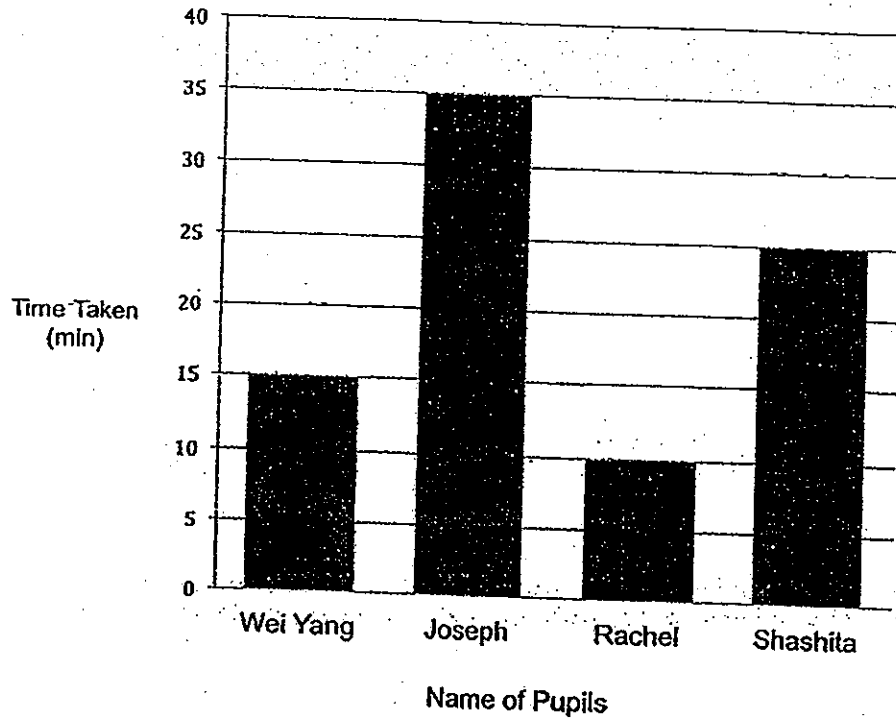
- (1)  $\frac{1}{3}$                                       (2)  $\frac{3}{9}$   
(3)  $\frac{4}{12}$                                     (4)  $\frac{8}{12}$

8. The figure below is made up of 6 identical rectangles.  
What fraction of the figure is not shaded?  
Leave your answer in its simplest form.



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

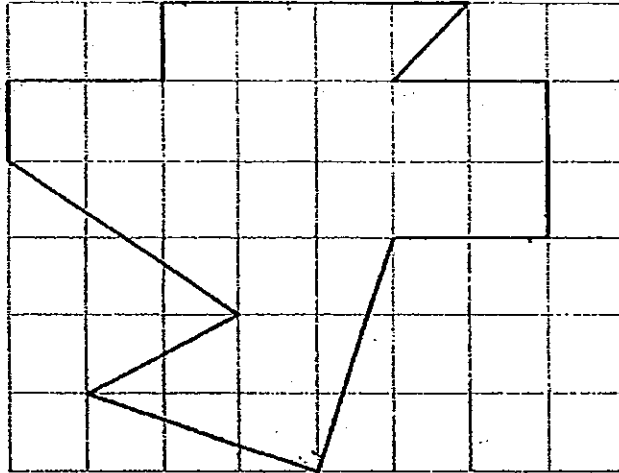
9. The graph below shows the amount of time that 4 pupils took to complete a piece of worksheet.



Who was the last pupil to complete the piece of worksheet?

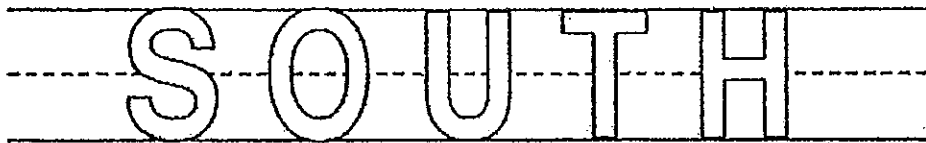
- (1) Joseph                      (2) Rachel  
(3) Shashita                    (4) Wei Yang

10. The figure below is drawn on a square grid.  
How many right angles are there inside the figure?



- (1) 12                      (2) 8  
(3) 5                        (4) 4

11. Which of the following letters below are made up of both perpendicular and parallel lines?



- (1) H and T                      (2) H and S  
(3) O and T                      (4) O and U

12. What is 45 hundreds less than 9300?

- (1) 4500                      (2) 4800  
(3) 5500                      (4) 8850

13. Mr Lim sold 7 boxes of pencils during the fair.  
There were 145 pencils in each box.  
How many pencils did he sell?

(1) 785                                      (2) 915  
(3) 1015                                      (4) 1195

14. The total capacity of Container A and B is 69 l.  
The capacity of Container A is 43 l.  
How much more water can Container A hold than Container B?

(1) 17 l                                      (2) 23 l  
(3) 26 l                                      (4) 27 l

15. Aslin completed all her homework at 5 minutes to 8 p.m.  
She took 35 minutes to complete her Science homework and  
1 hour 10 minutes to complete her Mathematics homework.  
At what time did she start doing all her homework?

(1) 6.10 p.m.                                      (2) 6.45 p.m.  
(3) 7.20 p.m.                                      (4) 8.00 p.m.

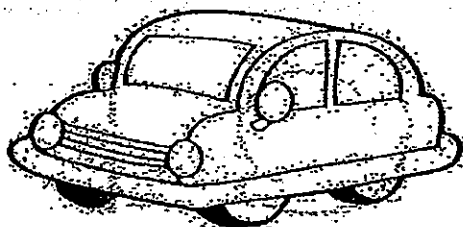
16. Form the largest 4-digit number and smallest 4-digit number using the  
digits 4, 6, 0, 9.  
Each digit can only be used once for each number.  
What is the difference between the two numbers?

(1) 5671                                      (2) 5629  
(3) 5581                                      (4) 5571

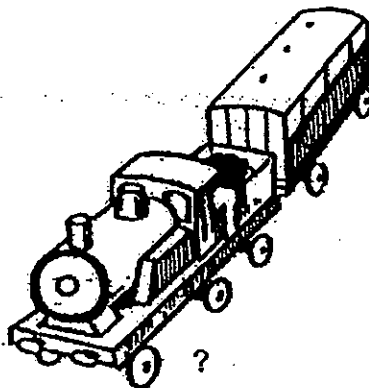
17. Jopa had \$8.  
When Lina gave away \$20, she had ten times as much money left as Jopa.  
How much money did Lina have at first?

- (1) \$60                      (2) \$80  
(3) \$100                    (4) \$280

18. Daniel gave the cashier a fifty-dollar note and 4 ten-dollar notes for 2 toy cars and 3 toy trains.  
He received \$2 as change.  
How much does 1 toy train cost?



\$17



?

- (1) \$18                      (2) \$34  
(3) \$54                      (4) \$56

19. The mass of Albert is 78 kg.  
The mass of Albert is twice as heavy as the mass of Mary.  
The mass of Evelyn is 27 kg heavier than the mass of Mary.  
How much heavier is Albert than Evelyn?

- (1) 12 kg                    (2) 39 kg  
(3) 51 kg                    (4) 66 kg

20. Eric bought 6 l of orange juice.  
He drank  $1 \frac{1}{350}$  ml of it and his brother drank 578 ml more than him.  
How much orange juice was left?

(1) 1928 ml  
(3) 3278 ml

(2) 2722 ml  
(4) 4778 ml



**Section B**

Questions 21 to 40 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. Marks will be awarded for relevant number sentences. For questions which require units, give your answers in the units stated.

(Total: 40 marks)

21. Fill in the blanks to make the mathematical statements correct.

(a)  $3795 =$  \_\_\_\_\_ hundreds, 9 tens and 5 ones.

(b)  $2874 =$  2 thousands, 8 hundreds and \_\_\_\_\_ ones.

22. What is the missing number in the box?

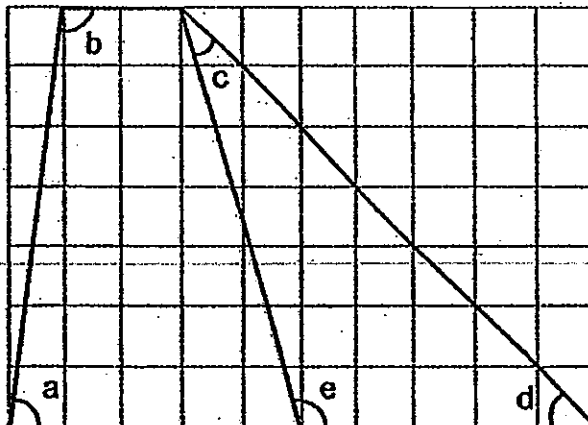
$$\frac{1}{4} = \frac{2}{\boxed{?}}$$

Answer : \_\_\_\_\_

23. There are five marked angles in the figure below:

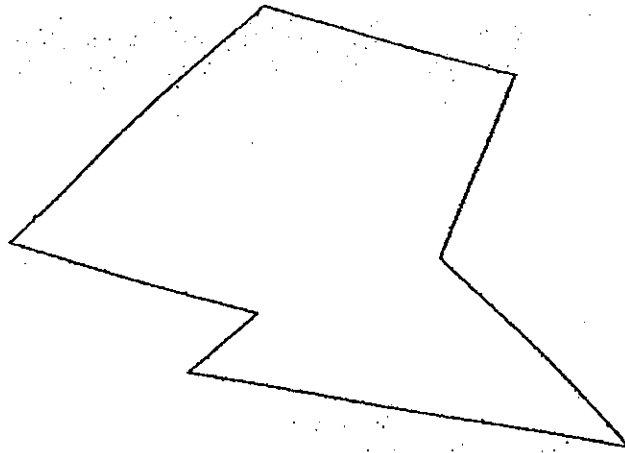
$\angle a$ ,  $\angle b$ ,  $\angle c$ ,  $\angle d$  and  $\angle e$ .

Write down all the marked angle(s) which is/are less than a right angle.



Answer : \_\_\_\_\_

24. Look at the figure below.  
How many angles are there inside the figure altogether?



Answer: \_\_\_\_\_

25. Arrange the following numbers in order, starting with the greatest number.

5305, 5053, 5503

Answer: \_\_\_\_\_

26. During a carnival, Jason sold 2 boxes of balloons and Halim sold 4 boxes of balloons.  
There were 257 balloons in each box.  
How many balloons did they sell in all?

Answer: \_\_\_\_\_

27. Amy saved \$37.35.  
She saved \$7.40 less than Nur.  
How much did they save altogether?

Answer : \$ \_\_\_\_\_

28. Alan is 181 cm tall.  
Cindy is 29 cm shorter than Alan.  
What is Cindy's height?

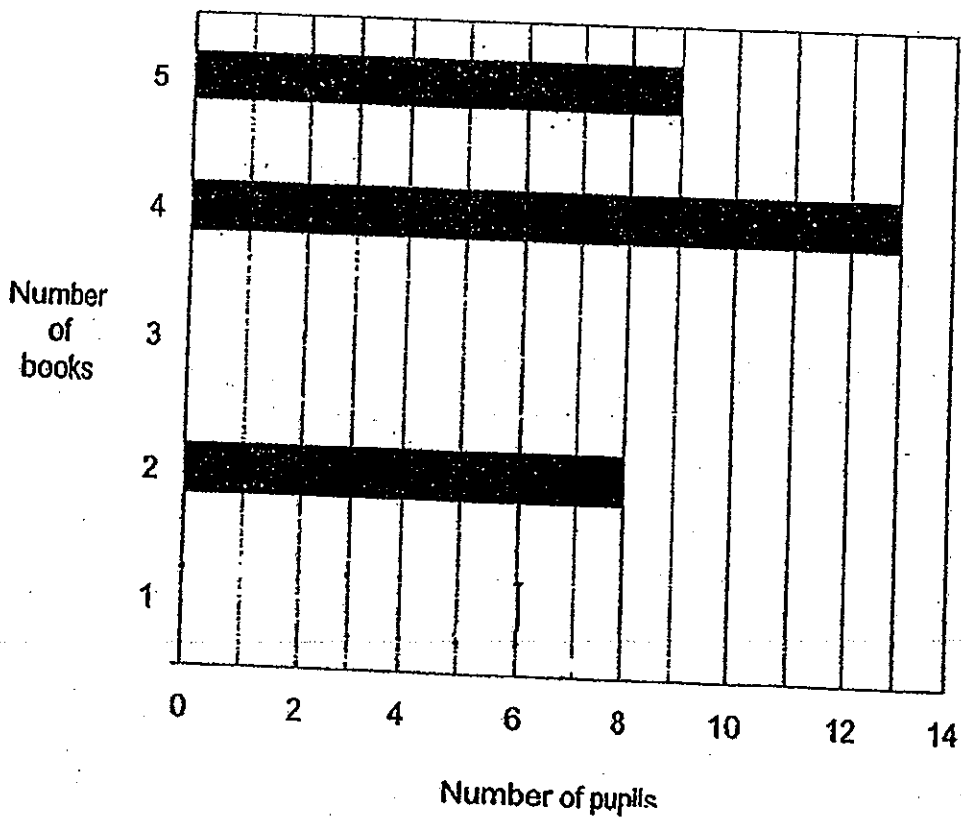
Answer : \_\_\_\_\_ cm

29. Mrs. Ngiam bought 2 four-litre bottles of soya sauce.  
After 3 weeks, she had only 304 ml of soya sauce left.  
How much soya sauce did she use?  
Give your answer in litres and millilitres.

Answer : \_\_\_\_\_ l \_\_\_\_\_ ml

30. Ali, Michelle and Sam each bought an identical cake.  
 Ali ate  $\frac{1}{3}$  of his cake, Michelle ate  $\frac{6}{7}$  of her cake and Sam ate  $\frac{6}{9}$  of his cake.  
 According to the amount of cake that they ate, arrange the names of the children in ascending order.

31. The bar graph below shows the number of books that a class of 36 pupils borrowed in one month.  
 The bar that shows the number of pupils who borrowed exactly one book is not drawn.  
 Given that 22 pupils borrowed more than 2 books, complete the graph to show the number of pupils who borrowed exactly one book.



32. All the Primary 3 pupils in the school eat at least 1 apple or orange every day.  
 228 pupils eat orange every day while 260 pupils eat apple every day.  
 There are 56 pupils who eat both orange and apple every day.  
 How many Primary 3 pupils are there in the school?

Answer: \_\_\_\_\_

33. In Year 2013, Zheng Jie's birthday falls on a Thursday.  
 Nura's birthday is exactly 21 days after Zheng Jie's birthday in the same month.  
 On which date does Nura's birthday fall on?

July 2013						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Answer: \_\_\_\_\_ July 2013

34. Judy has twice as many marbles as Raj.  
Raj and Amanda have 2446 marbles.  
Judy and Amanda have 3428 marbles.  
How many marbles does Judy have?

Answer : \_\_\_\_\_

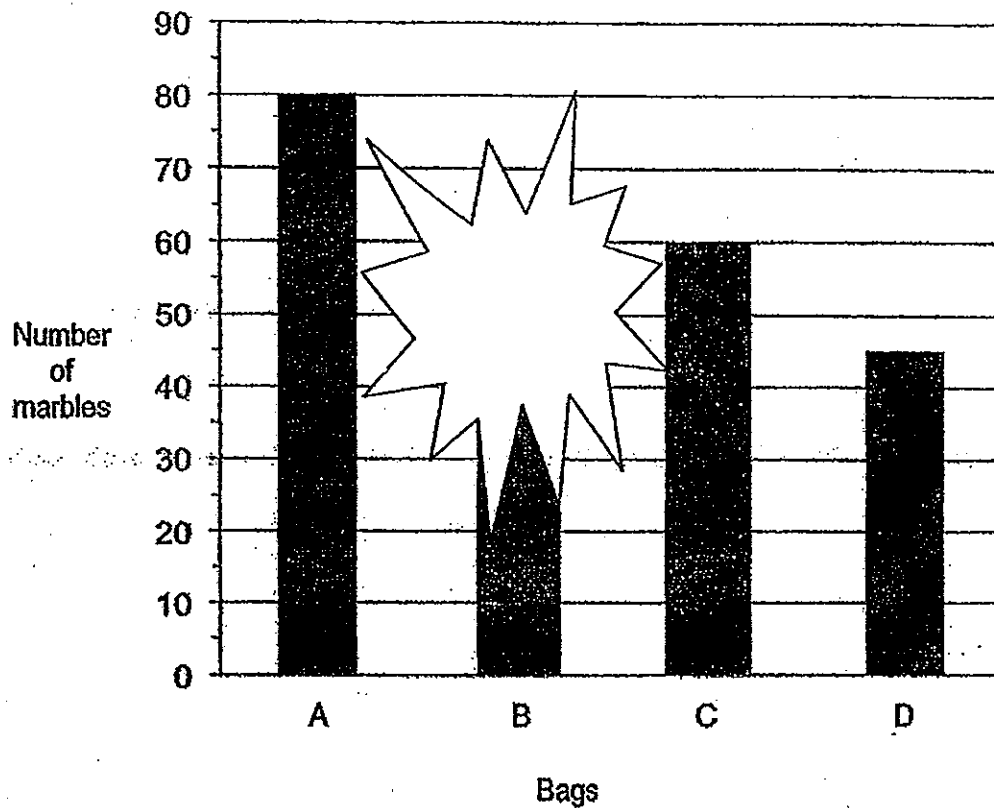
35. Muthu arranged 201 bricks along a straight road.  
The distance between 2 bricks is 5 cm.  
What was the distance between the first brick and the last brick in metres?

Answer : \_\_\_\_\_ m

36. Geetha made a chocolate cake and cut it into 8 equal slices.  
She ate  $\frac{1}{4}$  of the cake and her family ate  $\frac{3}{8}$  of the cake.  
How many slices of cake are left?

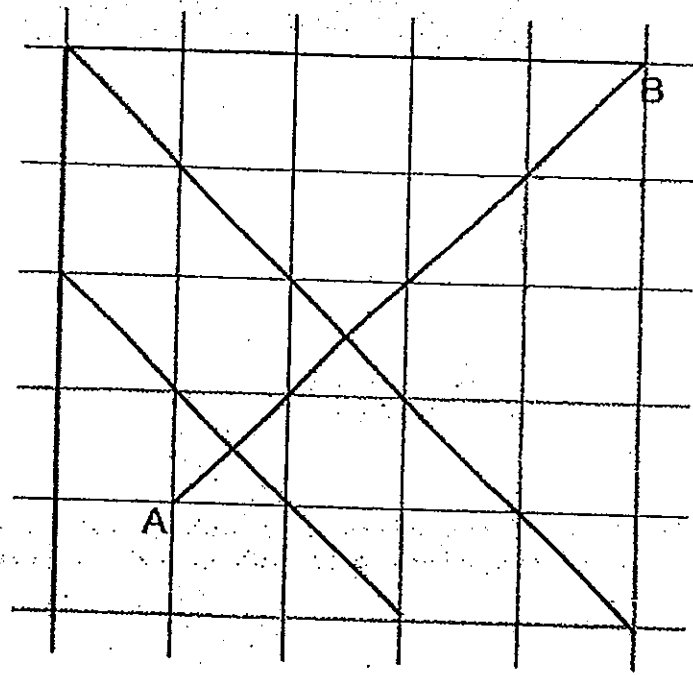
Answer : \_\_\_\_\_

37. The graph below shows the number of marbles in Bags A, B, C and D at first.  
The graph is smudged.  
After Ming En took some marbles from Bag A and put them into Bag B and D, all the bags have the same number of marbles.  
Find the number of marbles that Bag B has at first.



Answer: \_\_\_\_\_

38. On the square grid shown below, draw a line that is parallel to the line AB such that the total number of perpendicular lines will remain the same.



39. In a farm, there are 20 chickens and cows.  
All the cows have 2 more legs than all the chickens.  
How many chickens are there?

Answer: \_\_\_\_\_



40. I am a 4-digit number.  
All the digits in the number are different.  
The digit in the ones place is twice the digit in the hundreds place.  
The digit in the tens place is 4 more than the digit in the thousands place.  
The sum of four digits is 12.  
What number am I?

Answer: \_\_\_\_\_

**Section C**

Questions 41 to 45 carry 4 marks each. Do these word problems carefully. Show your working clearly in the space provided below each question. Marks will be awarded to relevant number sentences and word statement.

(Total: 20 marks)

41. Glen has 2580 stickers.  
Harry has 467 stickers more than Glen.  
How many stickers do they have altogether?

42. Mrs Teo left her home to go for work at 6.55 a.m.  
She took 1 hour and 20 minutes to travel from her home to her office.  
(a) At what time did she reach her office?  
(b) She left the office at 5.35 p.m., how long did she spend her time at work?

43. At a sport shop, 1 soccer ball costs as much as 2 identical rackets. Shalim bought 4 such soccer balls and 3 such rackets for \$66. What is the cost of the soccer ball?

44. Muthusamy had \$120 less than Robert. Isaac had thrice as much money as Robert. The three of them had \$1000 in all. How much money did Muthusamy have?

45. A Mathematics Topical Test had 8 two-mark questions and 4 four-mark questions.  
En Hui took 6 minutes more to answer each four-mark question than each two-mark question.  
She completed the test in 1 hour.  
How long did she take to complete each four-mark question?

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**Please Check Carefully**

# ANSWER SHEET

**EXAM PAPER 2013**

**SCHOOL : NANYANG PRIMARY SCHOOL**

**SUBJECT : PRIMARY 3 MATHS**

**TERM : SA2**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
3	1	3	1	3	2	4	1	1	3	1	2	3	1	1	4	3

Q18	Q19	Q20
1	1	2

Section B

Q21) a) 37 b) 74

Q22) 8

Q23)  $\Delta a, \Delta c, \Delta d$

Q24) 7

Q25) 5503, 5305, 5053

Q26) 1542

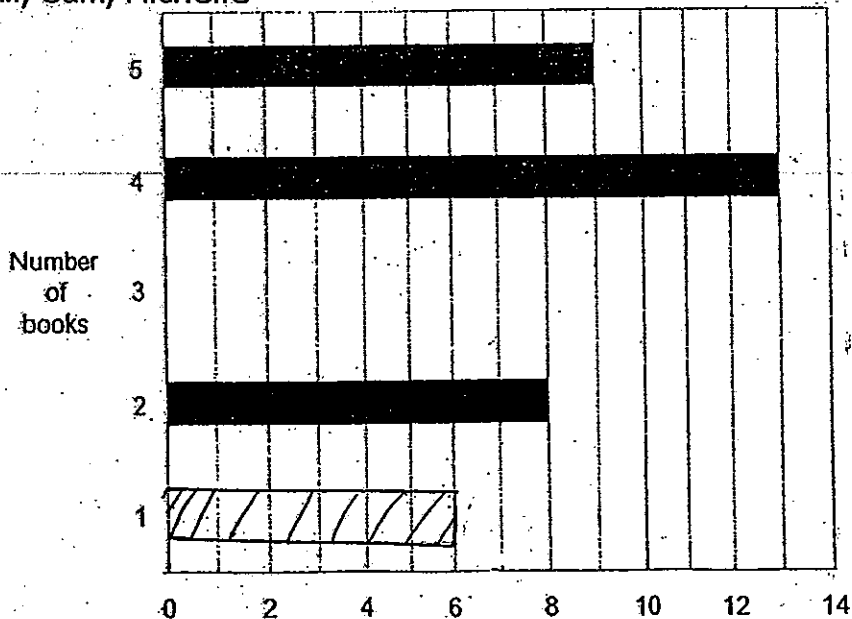
Q27) \$82.10

Q28) 152cm

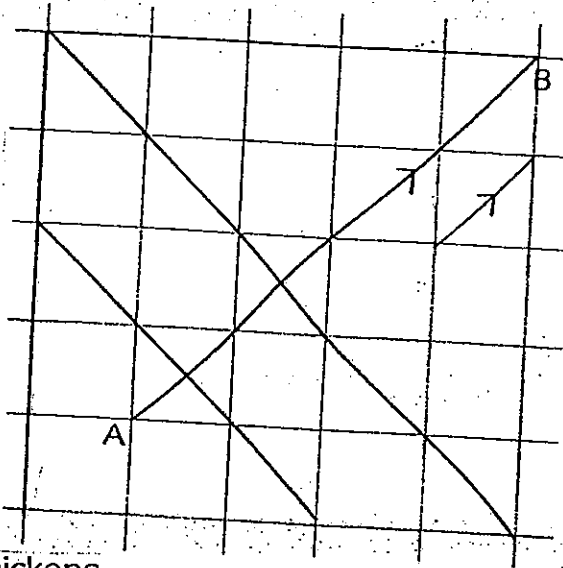
Q29) 7l 696ml

Q30) Ali, Sam, Michelle

Q31)



- Q32) 432  
 Q33) 25 July 2013  
 Q34) 1964  
 Q35) 10m  
 Q36) 3  
 Q37) 55  
 Q38)



- Q39) 13 chickens  
 Q40) 1254

Section C

- Q41)  $2580 + 467 = 3047$   
 $3047 + 2580 = 5627$   
 They have 5627 stickers altogether.

- Q42) a)  $6:55\text{a.m.} + 60\text{min} + 20\text{min} = 8:15\text{a.m.}$   
 She reached work at 8:15am.  
 b)  $8:15\text{am to } 12\text{pm} = 3\text{h}45\text{min}$   
 $12\text{pm to } 5:35\text{pm} = 5\text{h}35\text{min}$   
 $5\text{h}35\text{min} + 3\text{h}45\text{min} = 9\text{h } 20\text{min}$   
 She spent 9h 20min at work.

- Q43)  $4 \times 2 = 8$   
 $8 + 3 = 11$   
 $\$66 \div 11 = \$6$   
 $\$6 \times 2 = \$12$   
 The cost of the soccerball is \$12.

Q44)  $\$1000 + \$120 = \$1120$

$3 + 1 + 1 = 5$

$\$1120 \div 5 = \$224$

$\$224 - \$120 = \$104$

He had \$104

Q45)  $4 \times 6 = 24$

$60\text{min} - 24\text{min} = 36\text{min}$

$8 + 4 = 12$

$36 \div 12 = 3$

$3 + 6 = 9$

She took 9 minutes to complete each four-mark question.

