AI TONG SCHOOL

2014

END OF YEAR EXAMINATION

PRIMARY 4

MATHEMATICS

**DURATION** : 1 h 45 min

DATE : 24 October 2014

**INSTRUCTIONS**

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

Name : _____ (  )

Class : Primary 4 _____

Parent's Signature : _____

Date : _____

| | |
|---|---|
| Section A | 28 |
| Section B | 40 |
| Section C | 32 |
| Total | 100 |

## Section A

Questions **1** to **14** 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. (28 marks)

---

1 The value of the digit 5 in 85 761 is _____.

(1) 50

(2) 500

(3) 5000

(4) 50 000

2 Which of the following numbers when rounded off to the nearest ten becomes 21 900?

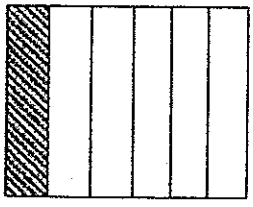
(1) 21 849

(2) 21 895

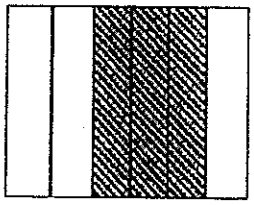
(3) 21 905

(4) 21 954

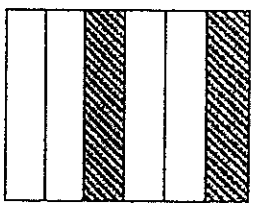
3 Which one of the following has $\frac{1}{3}$ of the figure shaded?



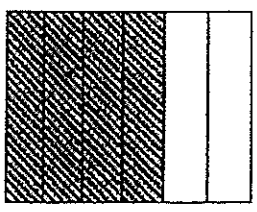
(1)



(2)



(3)



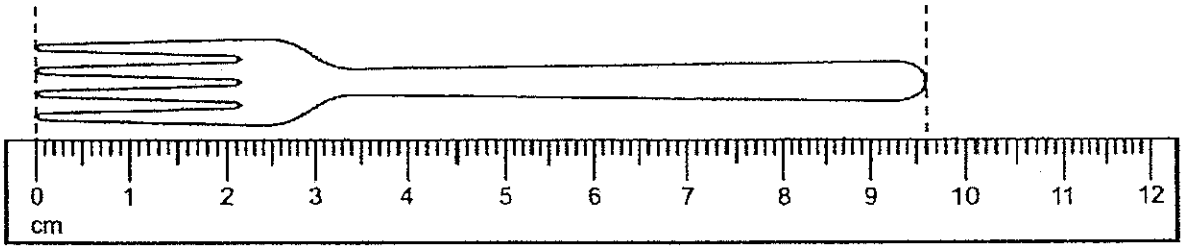
(4)

4 Arrange the following fractions from the greatest to the smallest.

$$\frac{1}{3}, \frac{3}{4}, \frac{5}{12}$$

| | *(greatest)* | | *(smallest)* |
|---|---|---|---|
| (1) | $\frac{3}{4}$, | $\frac{1}{3}$, | $\frac{5}{12}$ |
| (2) | $\frac{1}{3}$, | $\frac{3}{4}$, | $\frac{5}{12}$ |
| (3) | $\frac{1}{3}$, | $\frac{5}{12}$, | $\frac{3}{4}$ |
| (4) | $\frac{3}{4}$, | $\frac{5}{12}$, | $\frac{1}{3}$ |

5 In the figure below, what is the length of the fork in cm?
Give your answer as a decimal.




(1) 9.3 cm

(2) 9.6 cm

(3) 10.4 cm

(4) 10.6 cm

6 Express 0.08 as a fraction in its simplest form.

(1) $\frac{1}{8}$

(2) $\frac{2}{5}$

(3) $\frac{2}{25}$

(4) $\frac{1}{100}$

7 A piece of wire is bent to form a square with an area of 36 $cm^2$. How long is the wire?

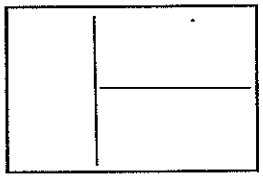
(1) 6 cm

(2) 9 cm

(3) 18 cm

(4) 24 cm

8 The figure below has a perimeter of 60 cm. It is made up of 3 similar rectangles. What is the area of one rectangle?



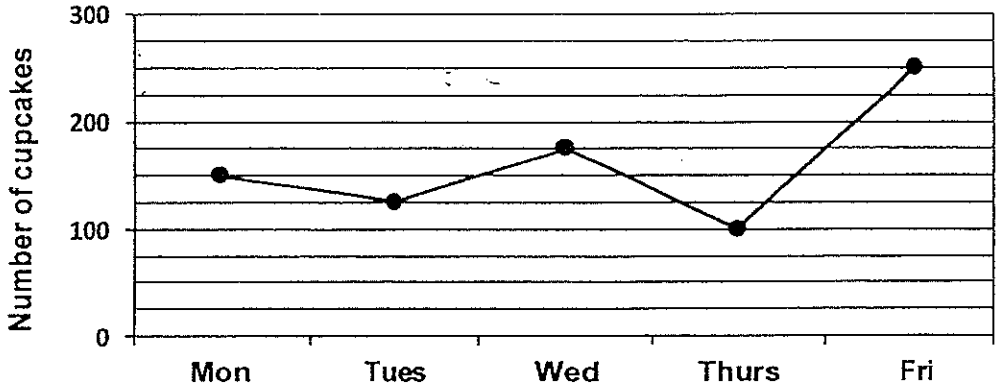
(1) 20 $cm^2$

(2) 36 $cm^2$

(3) 72 $cm^2$

(4) 180 $cm^2$

9 The line graph shows the number of cupcakes baked by Mrs Raju from Monday to Friday.




Mrs Raju baked half as many cupcakes on _____ as Friday.

(1) Monday

(2) Tuesday

(3) Wednesday

(4) Thursday

10 The table below shows the marks scored by Mary in her examination.

| | **Marks Scored** |
|---|---|
| English | 82 |
| Chinese | 91 |
| Math | ? |
| Science | ? |
| **Total** | 311 |

She scored 18 marks more for Math than Science. How many marks did she score for Science?

(1) 42

(2) 60

(3) 69

(4) 78

11 Mr Yap left his house at 11 20. He reached his workplace 1 h 45 min later. At what time did Mr Yap reach his workplace?

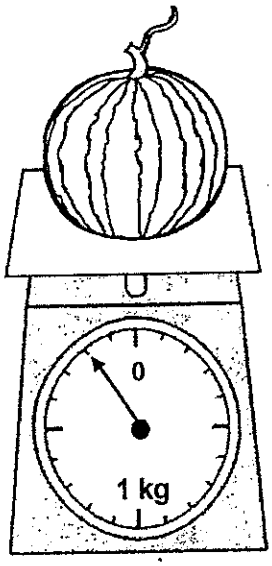
(1) 00 05

(2) 13 05

(3) 14 05

(4) 23 05

12 What is the mass of the watermelon?



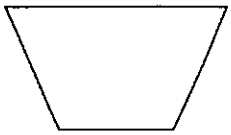

(1) $\frac{8}{10}$ kg

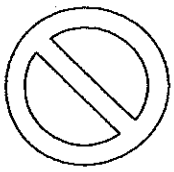
(2) $1\frac{3}{5}$ kg

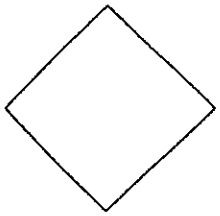
(3) $1\frac{4}{5}$ kg

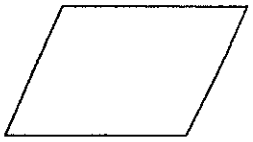
(4) $2\frac{3}{5}$ kg

13 Which of the following figures does **not** have any line of symmetry?

(1) 

(2) 

(3) 

(4) 

14 The school library has four times as many English books as Chinese books. After 392 new Chinese books were added, there were twice as many Chinese books as English books. How many Chinese books were there at first?

(1) 56

(2) 196

(3) 448

(4) 784

**Section B**

Questions 15 to 34 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)

**15** What number is 10 more than 1995?

Ans: _____

**16** Find the product of 5467 and 7.

Ans: _____

**17** Some factors of 18 are 1, 2, 3, and 18. What are the other two factors of 18?

Ans: _____ and _____

**18** Write $\frac{33}{9}$ as a mixed number in its simplest form.

Ans: _____

**19** Find the value of $1 - \frac{1}{8} - \frac{1}{4}$.

Ans: _____

---

**20** Round off 31.75 to the nearest whole number.

Ans: _____

---

**21** Arrange the following numbers from the smallest to the greatest.

$\frac{3}{4}$, 0.705, 0.075

Ans: _____ (*smallest*), _____, _____ (*greatest*)

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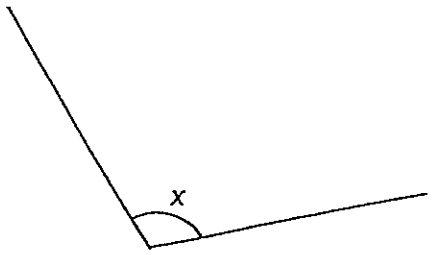
**22** Measure and write down the size of $\angle x$.




Ans: _____

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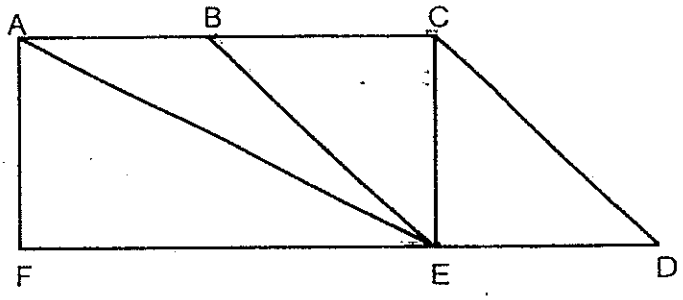
6

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




Ans: _____

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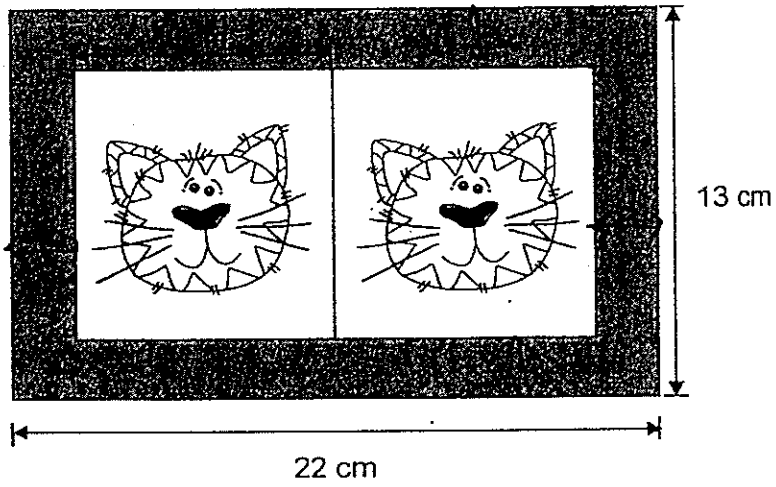
**24** Two identical square pictures each with sides measuring 9 cm are mounted on a rectangular cardboard as shown below. Find the area of the cardboard **not** covered by the pictures.




Ans: _____ $cm^2$

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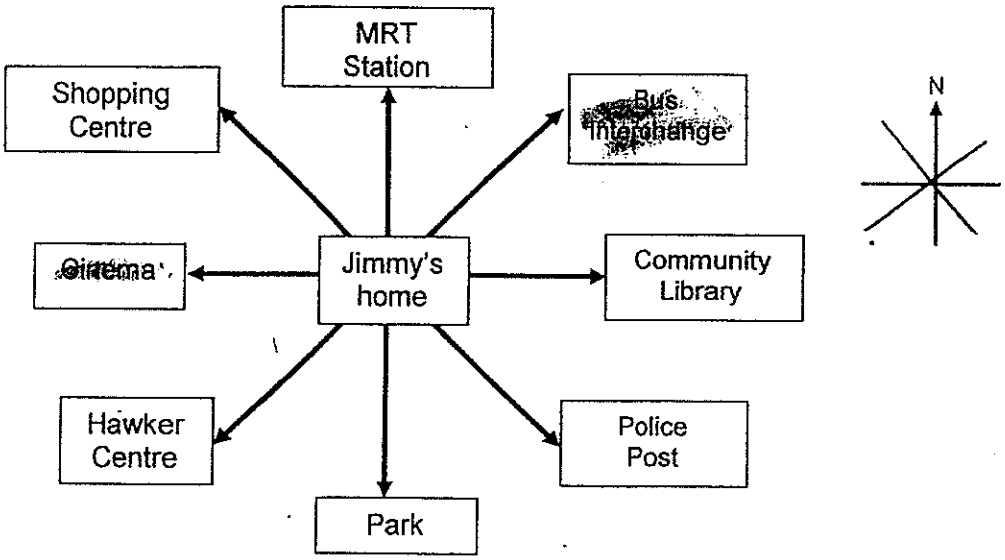
4

**25** The diagram below shows the direction of each place from Jimmy's home.



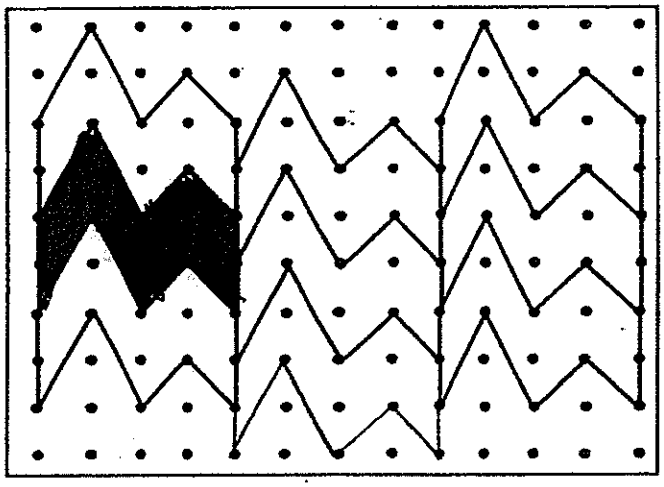

(a) Jimmy is facing the Cinema. He wants to turn clockwise to face the Bus Interchange. How many degrees must he turn?

(b) Jimmy is facing **North**. After he makes a $\frac{3}{4}$ - turn in an anti-clockwise direction, where will he be facing?

Ans: (a) _____

(b) _____

26 The pattern in the box shows part of a tessellation.



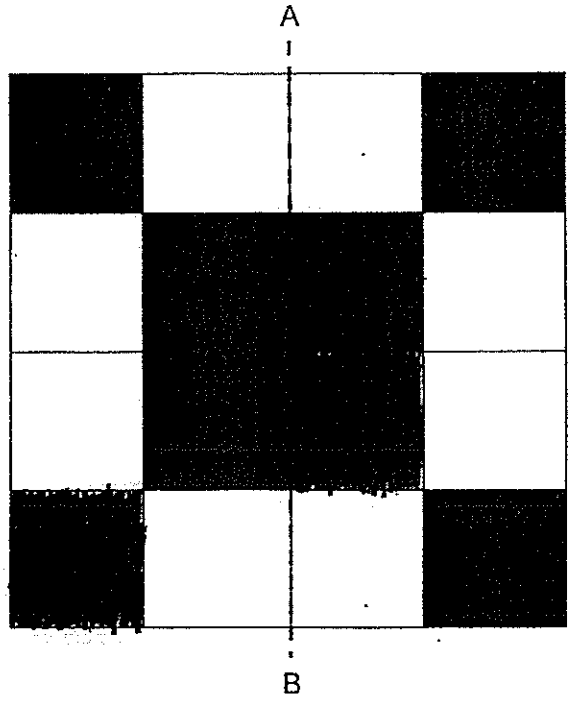
In the box above,

(a) shade a unit shape.

(b) extend the tessellation by drawing **one** more unit shape.

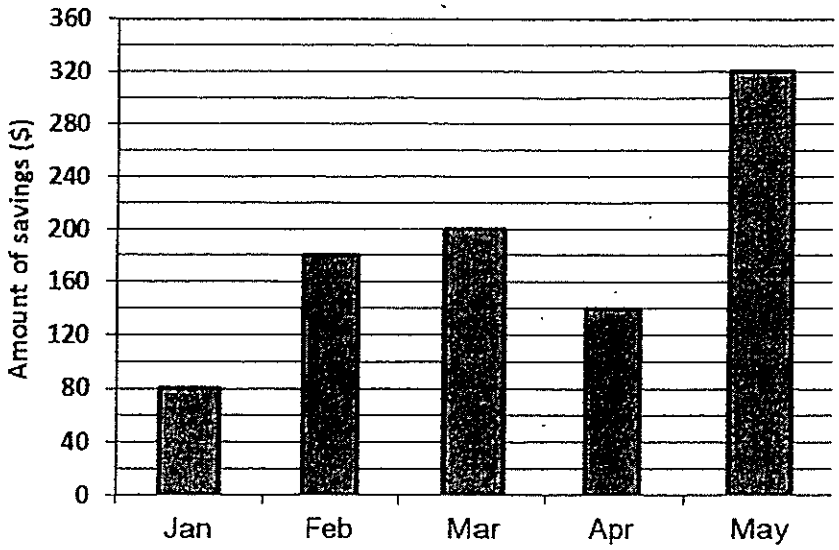
---

27 The figure below is made up of squares. Shade **two** squares to form a symmetric figure with AB as the line of symmetry.



The graph below shows the amount of money Lenny saved in five months.

Study the graph carefully and answer questions **28 and 29**.




28 How much less did Lenny save in January than May?

Ans: $ _____

---

29 Lenny donated $\frac{1}{4}$ of his total savings from January to March. How much did he donate?

Ans: $ _____

---



4

30 Danny took 159 seconds to brush his teeth. How many minutes and seconds did he take?

Ans: _____ min _____ s

---

31 Molly had three $50 notes in her wallet. After paying for a pair of running shoes, she had $5.75 left in her wallet. What was the cost of Molly's running shoes?

Ans: $ _____

---

32 There were some pupils in the gardening club. At the end of Term 1, 19 pupils left the gardening club. In Term 2, 7 new pupils joined the gardening club. There were 55 pupils left in the gardening club. How many pupils were in the gardening club at first?

Ans: _____

---

6

33 Bag A and bag B contained $7\frac{5}{8}$ kg of flour altogether. Bag A contained $4\frac{1}{2}$ kg of flour. What was the difference in the mass between bag A and bag B?

Ans: _____ kg

---

34 Sarah had some marbles. If she packed her marbles into bags of 4, she would have 2 marbles left. If she packed her marbles into bags of 7, there would be only 4 marbles in the last bag. What was the smallest possible number of marbles Sarah had?

Ans: _____

---

**Section C**

Questions **35** to **38** carry 3 marks each. Questions **39** to **43** carry 4 marks each. Show your working clearly in the space provided below each question and write your answers in the spaces provided. (32 marks)

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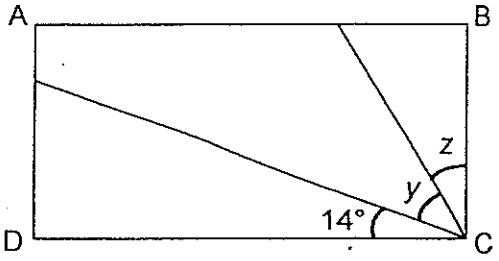
**35** The figure below shows a rectangle ABCD.
$\angle y = \angle z$. Find $\angle y$.




Ans: _____ [ 3 ]

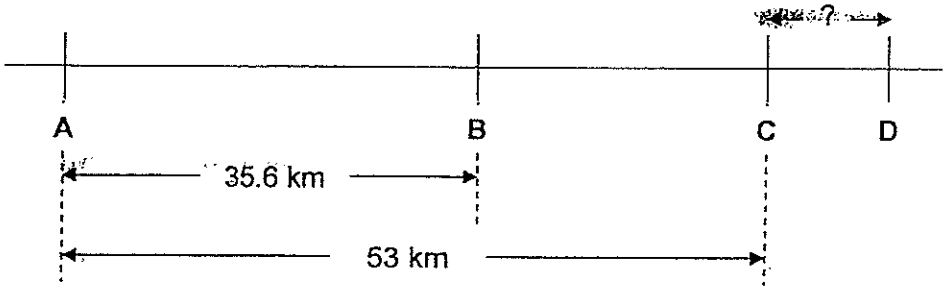
---

**36** Mary had 144 stickers. She gave $\frac{1}{3}$ of her stickers to Nelly and $\frac{1}{9}$ of her stickers to Tessa. How many stickers did Mary have left?

Ans: _____ [ 3 ]

---

37 The diagram below shows the distances between four towns. The distance from Town A to Town B is 35.6 km. The distance from Town A to Town C is 53 km. The distance from Town B to Town C is twice as much as the distance from Town C to Town D. What is the distance from Town C to Town D?




Ans: _____ [3]

**38** Study the pattern of dots and lines below.

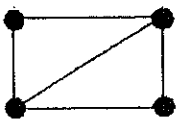


Figure 1

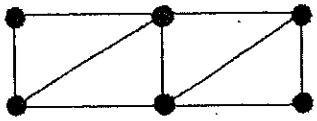


Figure 2

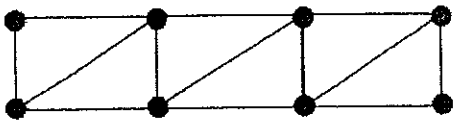


Figure 3

(a) Complete the table below. [1]

| *Figure number* | *Number of rectangles* | *Number of dots* | *Number of lines* |
|---|---|---|---|
| 1 | 1 | 4 | 5 |
| 2 | 2 | 6 | 9 |
| 3 | 3 | 8 | 13 |
| | | | |
| 5 | 5 | 12 | (a) _____ |

(b) How many rectangles will there be when there are 54 dots in the figure?

Ans: _____ [2]

39 Diane spent $39 on some books and $\frac{4}{7}$ of her original amount of money on some stationery. She had $9 left. How much money did she spend?

Ans: _____ [4]

---

40 Gopal took a flight from Singapore to Kuala Lumpur. The flight took 55 minutes, arriving at Kuala Lumpur at 00 02. He then took another flight from Kuala Lumpur to Tokyo at 01 55.

(a) At what time did Gopal leave Singapore?

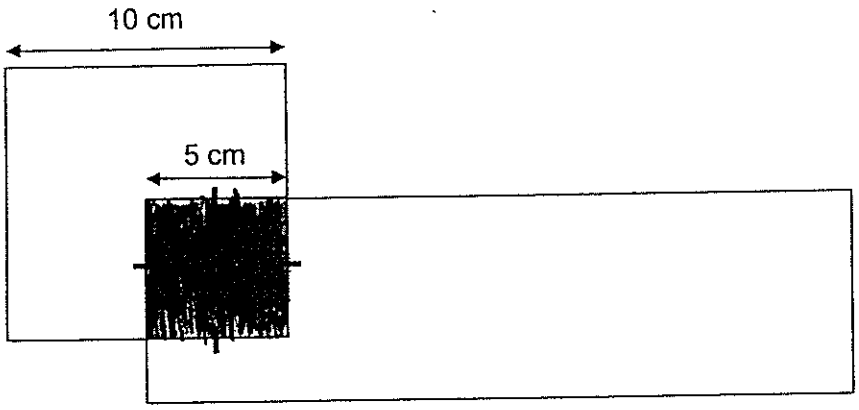
(b) The flight from Kuala Lumpur to Tokyo took 7 h 30 min. At what time would Gopal arrive in Tokyo?

Ans: (a) _____ [2]

(b) _____ [2]

---

41 The figure below is made up of a square and a rectangle overlapping each other at the shaded part. The area of the rectangle is twice the area of the square. Find the area of the whole figure.




Ans : _____ [4]

42 Dave bought 40 kg of rice. He gave his neighbour 8 kg of rice and repacked part of the remaining rice into 5 small bags. If he still had 13.8 kg of rice left, what is the mass of each small bag of rice?

Ans: _____ [4]

43 At a Children's Day party, every boy was given 2 balloons and every girl was given 3 balloons. There were thrice as many boys as girls at the party. If 279 balloons were given out in total, how many boys were there at the party?

Ans : _____ [4]

**End-of-paper**

*Check your work carefully.*

4

EXAM PAPERS 2014

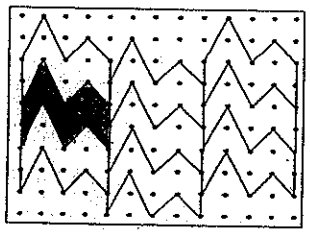
SCHOOL: AI TONG SCHOOL
SUBJECT: MATHEMATICS
LEVEL: PRIMARY 4
TERM: SA 2

PAPER 1 BOOKLET A

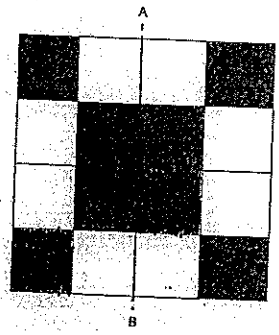
| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 2 | 3 | 4 | 2 | 3 | 4 | 3 | 2 | 2 |
| Q11 | Q12 | Q13 | Q14 | | | | | | |
| 2 | 3 | 4 | 4 | | | | | | |

BOOKLET B

Q15 2005
Q16 38269
Q17 6 and 9
Q18 3 2/3
Q19 5/8
Q20 32
Q21 0.075, 0.705, 3/4
Q22 108
Q23 BE
Q24 124
Q25 (a) 135 (b)Community Library
Q26



Q27




Q28 120
Q29 115
Q30 2min 39 s
Q31 144.25
Q32 67%

Q33 1 3/8

Q34 18

PAPER 2

Q35 90-14=76

76÷2=38

Ans: 38°

Ans:$2598.40

Q36 9u →144

1u→144÷9=16

5u→16x5=80

Ans:80

Q37 B to C→53-35.6=17.4

C to D→17.4÷2=8.7

Ans: 8.7km

Q38 (a)

| Figure number | Number of rectangles | Number of dots | Number of lines |
|---|---|---|---|
| 1 | 1 | 4 | 5 |
| 2 | 2 | 6 | 9 |
| 3 | 3 | 8 | 13 |
| u | u + 1 | 2u + 2 | 4u + 1 |
| 5 | 5 | 12 | (a) 21 |

(b)

| | | | | | |
|---|---|---|---|---|---|
| 6 | 14 | 13 | 28 | 22 | 46 |
| 7 | 16 | 14 | 30 | 23 | 48 |
| 8 | 18 | 15 | 32 | 24 | 50 |
| 9 | 20 | 16 | 34 | 25 | 52 |
| 10 | 22 | 17 | 36 | 26 | 54 |

Ans: 26

Q39 3u→39+9=48

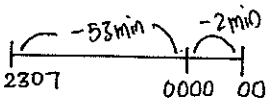
1u→48÷3=16

7u→16x7=112

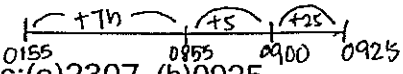
112-9=103

Ans:$103

Q40 (a)




(b)




Ans:(a)2307 (b)0925

Q41 5x5=25

10x10=100

100x2=200

100+200=300

300-25=275

Ans:275cm²

Q42 40-8=32
32-13.8=18.2
18.2÷5=3.64
Ans:3.64kg

Q43 2x3=6
6+3=9
279÷9=31
31x3=93
Ans:93