AI TONG SCHOOL

2011
SEMESTRAL ASSESSMENT 2
PRIMARY 4

MATHEMATICS

DURATION : 1 h 45 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 4 _____

Section A	28
Section B	40
Section C	32
Total	100

Parent's signature: _____

Date : _____

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)

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1 74 thousands and 8 tens is the same as _____.

(1) 748

(2) 7480

(3) 74 008

(4) 74 080

2 Which of the following is a factor of both 24 and 56?

(1) 18

(2) 12

(3) 6

(4) 4

3 Find the value of $\frac{5}{6} - \frac{1}{2}$

(1) 1

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

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

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

4 $8\frac{5}{8} = \frac{\square}{8}$

What is the missing number in the box?

(1) 40

(2) 59

(3) 64

(4) 69

5 The digit 9 in 63.928 stands for 9 _____.

(1) ones

(2) tenths

(3) hundredths

(4) thousandths

6 Write $\frac{3}{100}$ as a decimal.

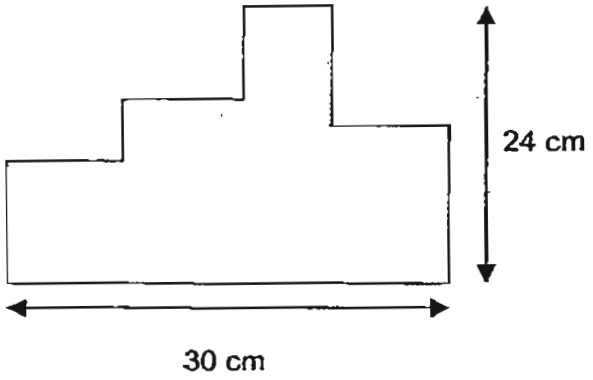
(1) 0.3

(2) 0.03

(3) 3

(4) 0.003

7 The figure below is not drawn to scale. Given that all the lines meet at right angles, find its perimeter.



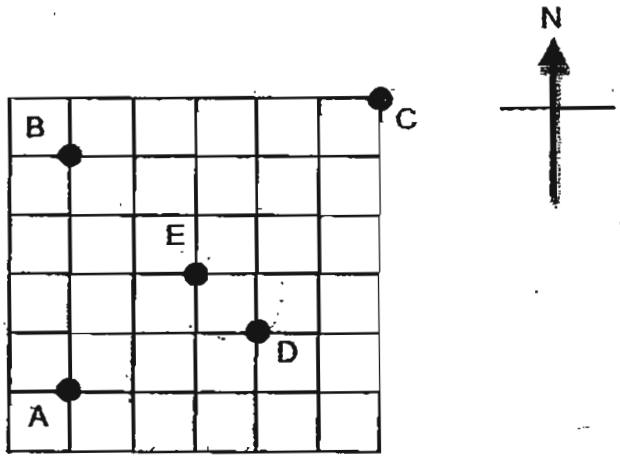
(1) 54 cm

(2) 78 cm

(3) 84 cm

(4) 108 cm

8 Emily is at Point E and facing North-east. If she makes a $\frac{3}{4}$ turn clockwise, she will face Point _____.



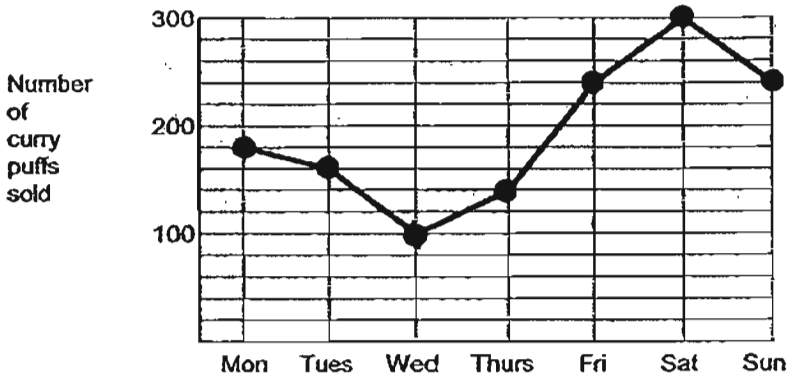
(1) A

(2) B

(3) C

(4) D

The line graph shows the number of curry puffs sold from Monday to Sunday. Study the graph carefully and answer questions **9** and **10**.



9 On which two days was the number of curry puffs sold the **same**?

(1) Monday and Tuesday

(2) Tuesday and Thursday

(3) Friday and Sunday

(4) Saturday and Sunday

10 If each curry puff was sold at $1.30, what was the total amount collected on the day with the **least** sale?

(1) $100

(2) $113

(3) $130

(4) $300

11 A box contains 60 marbles. $\frac{2}{5}$ of the marbles are white. $\frac{1}{3}$ of the marbles is black and the rest are purple. How many purple marbles are there?

(1) 44

(2) 16

(3) 15

(4) 4

12 Which of the following figures below **do not** have a line of symmetry?

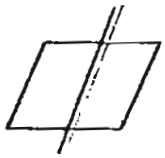


Figure A

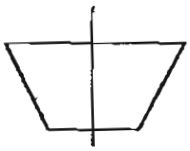


Figure B


Figure C

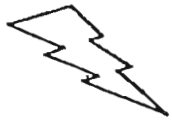


Figure D

(1) Figures A and B

(2) Figures B and C

(3) Figures C and D

(4) Figures A and D

13 When it is 06 00 in Singapore, it is 07 00 in Tokyo. Mr Ng, who was in Tokyo on a business trip, called his wife in Singapore. She received his call at 23 10 on Monday. What was the time and day in Tokyo?

(1) 00 10, Monday

(2) 00 10, Tuesday

(3) 22 10, Monday

(4) 22 10, Tuesday

14 Jane had an equal number of pencils and crayons at first. She gave half of the pencils to her sister and bought another 21 crayons. In the end, she had thrice as many crayons as pencils. How many pencils had she at first?

(1) 42

(2) 63

(3) 84

(4) 105

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 34 912 = 30 000 + 4000 + ____?____ + 2

What is the missing number?

Ans: _____

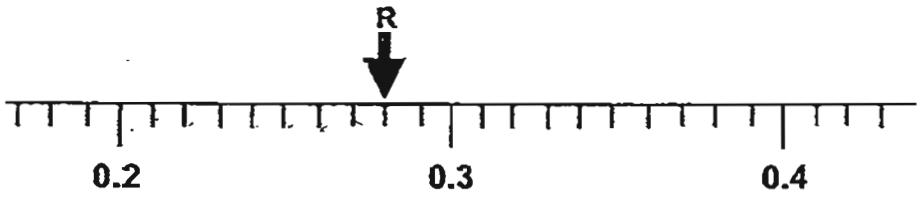
16 Subtract 473 from 5023.

Ans: _____

17 Round off 61 049 to the nearest hundred.

Ans: _____

18 Write the decimal represented by R.



Ans: _____

19 Find the value of 5.03 x 7.

Ans: _____

10

20 Which two of the fractions below are equivalent to $\frac{8}{12}$?

$\frac{18}{24}$, $\frac{12}{18}$, $\frac{4}{10}$, $\frac{2}{3}$

Ans: _____ and _____

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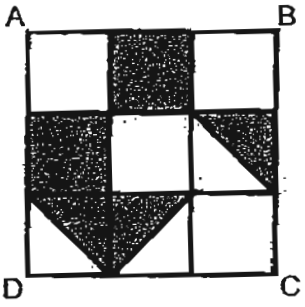
21 In the figure below, ABCD is made up of 9 unit squares. What fraction of ABCD is shaded?



Ans: _____

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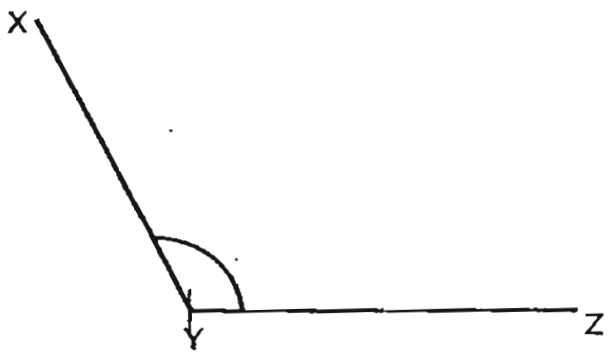
22 Measure and write down the size of ∠XYZ.



Ans: _____ °

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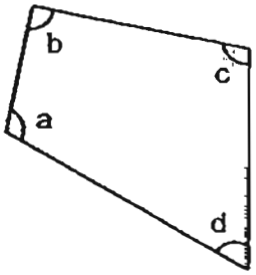
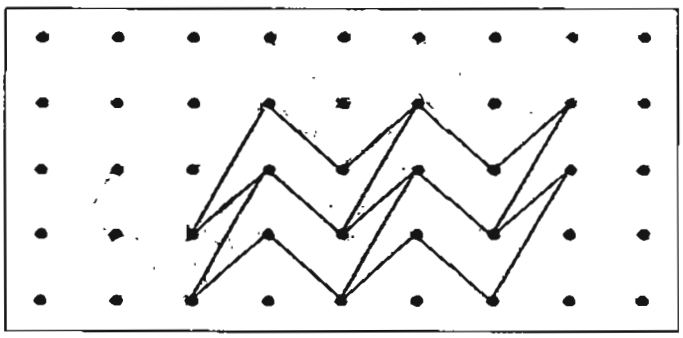
23 In the figure, one of the angles is a right angle. Name the angle:

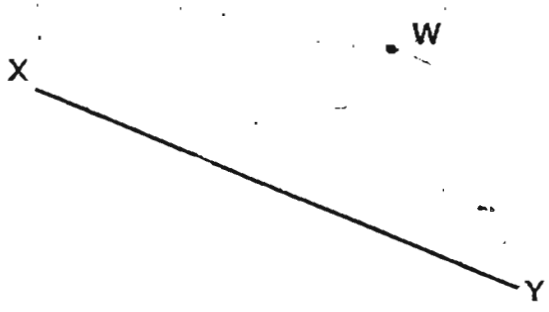


Ans: ∠ _____

24 Draw 3 more unit shapes to extend the tessellation.



25 Draw a line parallel to XY, passing through point W.



26 A square has a perimeter of 44 cm. Find its area.

Ans: _____ cm^2

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27 Darryl's mass is 60.9 kg when rounded off to 1 decimal place. What is his **largest** possible mass? Leave your answer in 2 decimal places.

Ans: _____ kg

---

28 A show ended at 7.10 p.m. It lasted for $1\frac{3}{4}$ h. At what time did the show start?

Ans: _____ p.m.

---

29 Jun Xiang had $50. He bought a magazine at $7 and spent part of the remaining money on a tin of cookies. If he had $16.80 left, how much did the tin of cookies cost?

Ans: $ _____

The table below shows the total number of plates of chicken rice and fried rice sold in the school canteen from Monday to Friday.
Study the table carefully and answer questions **30** and **31**.

Day	Number of plates		Total Amount collected
	Chicken Rice	Fried Rice	
Monday	120	60	$180
Tuesday	85	110	$195
Wednesday	50	156	$206
Thursday	?	?	$186
Friday	135	82	$217

30 What was the total amount of money collected from Monday to Friday?

Ans: $ _____

---

31 A plate of chicken rice and fried rice cost $1 each. On Thursday, the number of plates of chicken rice sold was **twice** that of fried rice. How many plates of chicken rice were sold on Thursday?

Ans: _____

---

32 Soo Hong is 3 years younger than his brother. Their total age is 21 years. How old is Soo Hong 5 years from now?

Ans: _____ years old

---

33 Cupcakes are sold in boxes of 6. Each box costs $4. With $38, how many cupcakes can Josh buy **at most**?

Ans: _____

---

34 How many quarters are there in the sum of $\frac{2}{3}$ and $3\frac{5}{6}$?

Ans: _____

6

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 Mr Tan had some toys to sell. 2 of them were damaged and had to be thrown away. The rest of the toys could be placed into boxes of 5 or 6. What is the **smallest** possible number of toys Mr Tan had at first?

Ans: _____ [3]

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36 Mr Lim bought 248 cartons of oranges. There were 36 oranges in each carton. He sorted the oranges into big and small oranges. If there were 1046 big oranges, how many small oranges were there?

Ans: _____ [3]

---

37 Mr Cheng spent $\frac{2}{5}$ of his salary on a new laptop and $\frac{1}{4}$ of it to buy a watch. He was left with $1400. How much was his salary?

Ans: _____ [3]

---

38 Michelle had some money. She wanted to buy 24 files but was short of $3. In the end, she bought 21 files and had $6 left. How much money did Michelle have at first?

Ans: _____ [3]

---

39 (a) Bala left home at 6.45 a.m. and reached school at 7.20 a.m. How long did he take to travel from home to school?

(b) After school, Bala went for his piano lesson. He reached the music studio at 1.45 p.m. When his music lesson ended 1 hour later, he took a 20-minute bus ride home. At what time did Bala reach home?

Ans: (a) _____ [2]

(b) _____ [2]

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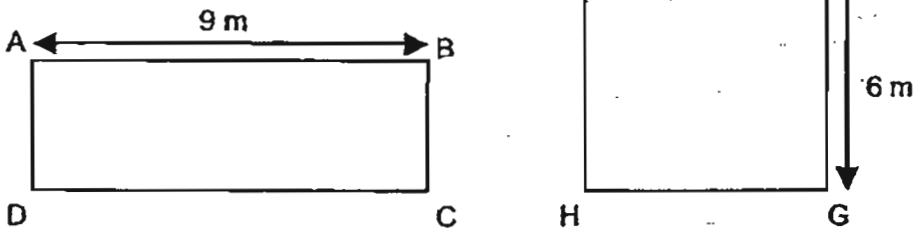
40 The figures below are not drawn to scale. Rectangle ABCD has the **same area** as square EFGH. Find the perimeter of rectangle ABCD.



Ans : _____ [4]

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41 Matchsticks are used to form the following figures below. Study the pattern carefully and answer questions **(a), (b) and (c)**.

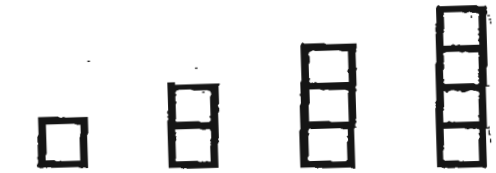


Figure 1 Figure 2 Figure 3 Figure 4

Figure number	1	2	3	4	.....	6	.....	(c)
Number of sticks	4	7	10	(a)	.....	(b)	.....	151

(a) How many matchsticks are used to form Figure 4?

(b) How many matchsticks are used to form Figure 6?

(c) Which figure number requires 151 matchsticks to be formed?

Ans: (a) _____ [1]

(b) _____ [1]

(c) _____ [2]

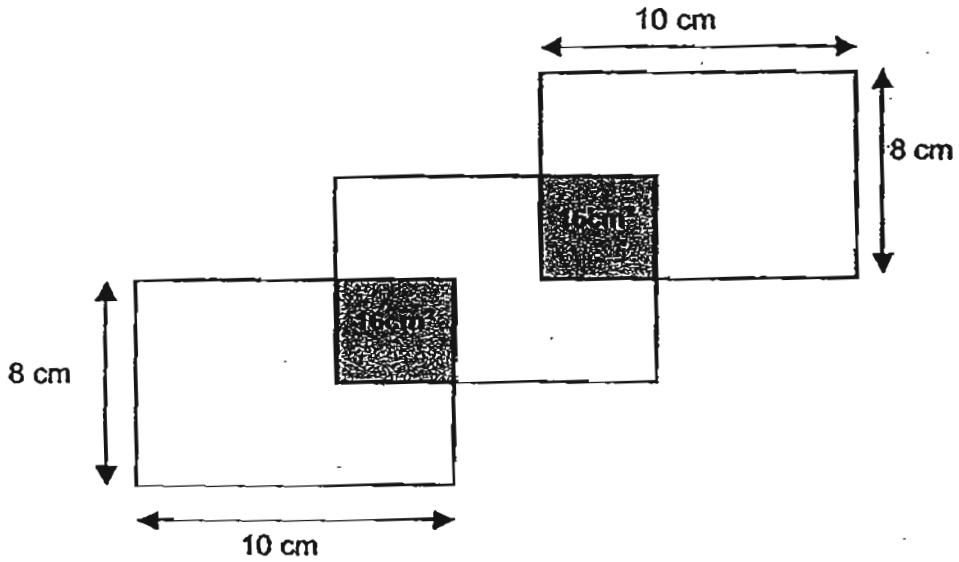
4

42 Ray and Serene have a total of $1183 in their savings accounts. Serene and Tim have a total of $1124 while Ray and Tim have a total of $961. How much savings does Tim have?

Ans: _____ [4]

4

43 The figure below shows 3 identical rectangles. The length of each rectangle is 10 cm and the breadth is 8 cm. The rectangles overlap and form 2 similar squares of area 16 cm² each. Find the **unshaded** area of the figure.



Ans : _____ [4]

End-of-paper

Check your work carefully.

4

Answer Ke

EXAM PAPER 2011

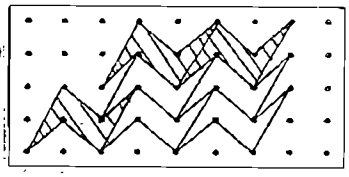
SCHOOL : AITONG
SUBJECT : PRIMARY 4 MATHEMAEICS

TERM : SA2

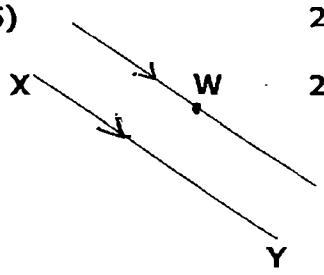
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14
4	4	2	4	2	2	4	2	3	3	2	4	2	1

15)910 **16)4550** **17)61000** **18)0.28** **19)35.21**

20)2/3 and 12/18 **21)7/18** **22)117°** **23)b** **24)**



25)



26)121cm2 **27)60.94kg** **28)5.25p.m.**

29)$26.20 **30)$984** **31)124**

32)21 – 3 = 8
18÷2 = 9
9 + 5 = 14 years old

33)$38÷4 = 9
9 x 6 = 54 cupcakes

34)2/3 = 4/6
35/6 + 4/6 = 43/6
43/6 = 42/4
4 x 4 = 16
16 + 2 = 18 quarters

35)32 – 2 = 30
30 + 2 = 32 toys

36)248 x 36 = 8928
8928 – 1046 = 7882 small oranges

37)2/5 = 8/20
¼ = 5/20
8/20 + 5/20 = 13/20
20/20 – 13/20 = 7/20
7 units→$1400
1 unit→$1400÷ 7 =$200
20 units→$200 x 20 = $4000

38)24 – 21 = 3
$6 + $3 = $9
$9÷3 = $3
21 x $3 = $63
$63 + $6 = $69

39)a)6.45a.m. 7.20a.m.

35min

b)1.45p.m. 2.45p.m. ?

1h 20min

Ans: 3.05p.m.

40)6m x 6m = 36m2
36m2÷9m = 4m
9m + 4m = 13m
13m x 2 = 26m

41)a)4 x 2 = 8
8 + 5 = 13 matchsticks
b)6 x 2 = 12
12 + 7 = 19 matchsticks
c)151 – 1 = 150
1 unit + 2 units = 3 units
150 ÷ 3 units = 50

42)$1124 – $961 = $163
$1183 – $163 = $1020
$1020÷2 = $510
$961 – $510 = $451

43)10cm x 8cm = 80cm2
80cm2 – 16cm2 = 64cm2
64cm2 x 2 = 128cm2
64cm2 – 16cm2 = 48cm2
128cm2 + 48cm2 = 176cm2