AI TONG SCHOOL

2011

SEMESTRAL ASSESSMENT 1

PRIMARY 5

MATHEMATICS
Paper 1

DURATION : 50 min

DATE : 11 MAY 2011

INSTRUCTIONS
Do not open the booklet until you are told to do so.
Follow all instructions.
Answer all questions.
You are not allowed to use a calculator.

Name : _____ ( )

Class : Primary 5 (_____)

Paper 1	40
Paper 2	60
Total	100

Parent's Signature: _____

Date : _____

5033

Booklet A

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 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.

(20 marks)

---

1 In the number 752 397, what does the digit '**5**' stands for?

(1) 500

(2) 5 000

(3) 50 000

(4) 500 000

2 $440\,404 = 400\,000 + 40\,000 + \square + 40 + 4$

What is the missing number in the box?

(1) 0

(2) 360

(3) 400

(4) 404

3 Express $\frac{14}{3}$ as a mixed number.

(1) $\frac{3}{14}$

(2) $1\frac{3}{4}$

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

(4) $14\frac{1}{3}$

1

4 $\frac{7}{8} \div 5$ is the same as _____ .

(1) $\frac{7}{8} \div \frac{1}{5}$

(2) $\frac{7}{8} \times \frac{5}{1}$

(3) $\frac{7}{8} \times \frac{1}{5}$

(4) $\frac{8}{7} \times \frac{1}{5}$

5 Express $4\frac{2}{5}$ km in metres.

(1) 425 m

(2) 440 m

(3) 4250 m

(4) 4400 m

6 Su Ming had some cards. After he gave away 12 cards, he had 48 cards left. What fraction of his cards had he left?

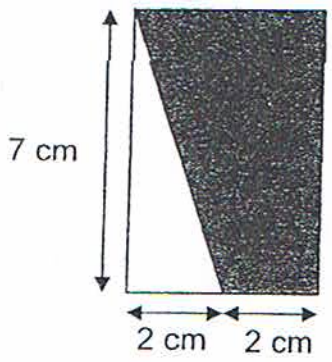
(1) $\frac{1}{4}$

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

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

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

7 Find the shaded area of the figure.



(1) 28 cm^2

(2) 21 cm^2

(3) 14 cm^2

(4) 7 cm^2

8 If ☺ : ☼ = 2 : 5, and ☺ : ♣ = 2 : 7, find the ratio of ♣ : ☼.

(1) 5 : 2

(2) 5 : 7

(3) 7 : 2

(4) 7 : 5

9 Siti has some stickers. $\frac{4}{5}$ of them are red stickers while the remaining 35 are green stickers. How many more red stickers than green stickers are there?

(1) 28

(2) 70

(3) 105

(4) 140

3

10 The 2 solids below are made up of 1-cm cubes.

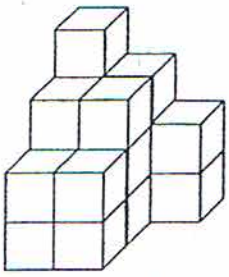


Figure A

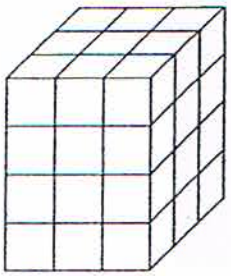


Figure B

How many 1-cm cubes are needed to be added to Figure A to make Figure B?

(1) 14

(2) 17

(3) 26

(4) 36

11 $\frac{3}{5}$ of the flowers in a shop are roses. $\frac{1}{4}$ of the remainder are carnations. The rest are daisies. What is the ratio of the number of daisies to the number of roses and carnations?

(1) 3 : 7

(2) 7 : 3

(3) 9 : 11

(4) 11 : 9

12 A piece of ribbon $\frac{5}{6}$ m long was cut into 4 equal pieces. Zi Xiao used 3 of the pieces to tie some presents. What was the length of the ribbon left?

(1) $\frac{1}{12}$ m

(2) $\frac{5}{24}$ m

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

(4) $\frac{5}{8}$ m

13 Find the value of $60 \div 6 + (4 + 3 \times 2) \times 3$.

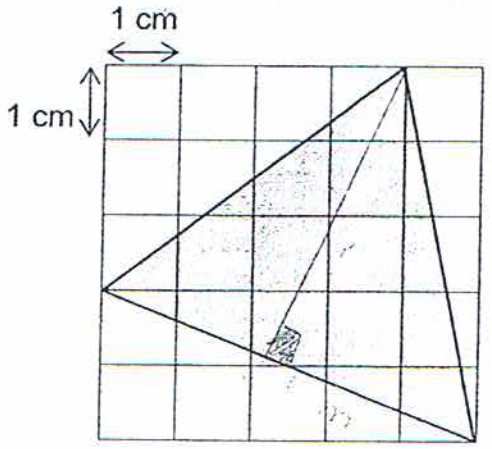
(1) 102

(2) 52

(3) 40

(4) 32

14 The shaded triangle is drawn on a square grid. What is the area of the **shaded** figure below?



(1) 11.5 cm^2

(2) 12.5 cm^2

(3) 13.5 cm^2

(4) 25 cm^2

15 The money Wan Ling and Su Ling had was in the ratio 3 : 8. If Wan Ling had \$25 less than Su Ling, how much money did they have altogether?

(1) \$5

(2) \$15

(3) \$40

(4) \$55

Booklet B

Questions **16 to 25** carry 1 mark each. Write your answers in the space provided.
For questions which require units, give your answers in the units stated. (10 marks)

16 Write **eight million, fifty-eight thousand and three** in numerals.

Ans: _____

17 The mass of a book when rounded off to the nearest tenth is 325.0 g.
What is the greatest possible mass of the book? (Correct to 2 decimal places.)

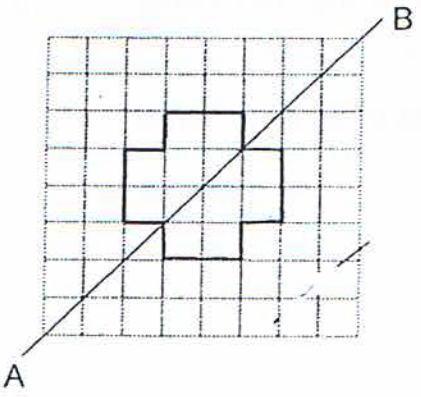
Ans: _____ g

18 Mrs Tan used $\frac{3}{4}$ ℓ of lime juice to cook 5 dishes. She used an equal amount of juice for each dish. How much juice did she use to cook each dish?

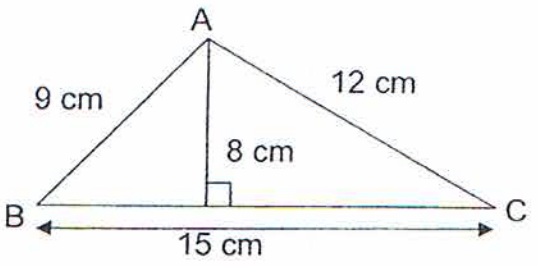
Ans: _____ ℓ

3 7

19 The diagram below shows half of a symmetrical figure. AB is its line of symmetry. Draw the missing half of the symmetrical figure.



20 Find the area of triangle ABC.



Ans: _____ cm^2

21 ☐ : 60 = 30 : 25. What is the missing number in the box?

Ans: _____

3

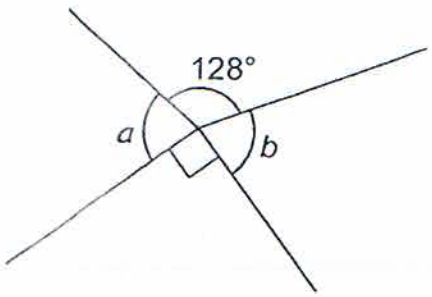
22 Insert a pair of brackets, ( ) , in the number statement below to make it a correct number statement.

$$7 \times 8 - 5 + 20 \div 5 - 3 = 61$$

23 Subtract $\frac{3}{4}$ from $4\frac{1}{6}$. Express your answer as a mixed number in its simplest form.

Ans: _____

24 In the figure below, not drawn to scale, $\angle a = \angle b$. Find $\angle b$.



Ans: _____ °

25 At a party, each person shook hands with every one else once. If there were 6 people present at the party, how many handshakes were exchanged altogether?

Ans: _____ 9

Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided.
For questions which require units, give your answers in the units stated. (10 marks)

26 The mass of Leonard, Merlin and Nurul is in the ratio of 3 : 5 : 4. If Nurul's mass is 44 kg, what is the mass of Merlin?

Ans: _____ kg

27 Construct line BC such that $\angle$ ABC is 75° and the length of BC is 5 cm.

A _____ B

28 Bill had a bag of sweets. He gave $\frac{1}{5}$ of the sweets to Joyce and $\frac{2}{3}$ of the remaining sweets to Trina. If Bill had 24 sweets left, how many sweets did he have at first?

Ans: _____

29 A storybook has 100 pages altogether. How many digits are used to print all the page numbers in the storybook?

Ans: _____

30 The ratio of the number of carnations to the number of lilies in a garden was 2 : 5. When 30 more carnations were planted, the ratio of the number of carnations to the number of lilies became 8 : 15. How many flowers were there in the garden at first?

Ans: _____

End of Paper 1

AI TONG SCHOOL

2011

SEMESTRAL ASSESSMENT 1

PRIMARY 5

MATHEMATICS
Paper 2

DURATION : 1 h 40 min

DATE : 11 MAY 2011

INSTRUCTIONS

Do not open the booklet until you are told to do so.
Follow all instructions.
Answer all questions.
You are allowed to use a calculator.

Name : _____ ( )

Class : Primary 5_____ Marks:

Paper 2	/ 60

Parent's Signature : _____

Date :

17

For questions **6** to **18**, show your working clearly in the space provided for each question and write the answers in the spaces provided.
The number of marks available is shown in the brackets [ ] at the end of each question or part-question.

(50 marks)

---

6 Brendon worked at a restaurant from January to December. In the first 8 months, his monthly income was $960. From September, his monthly income was increased to $1050. Find the total amount of money he earned in the 12 months.

Ans: _____ [3]

---

7 Along a 2.4km straight path, there was a lamp post at every 20-m mark, including the start and end points.

(a) How far away was the 8th lamp post from the start point?
(b) How many lamp posts were there altogether on this path?

Ans: (a) _____ [1]

(b) _____ [2]

17

6

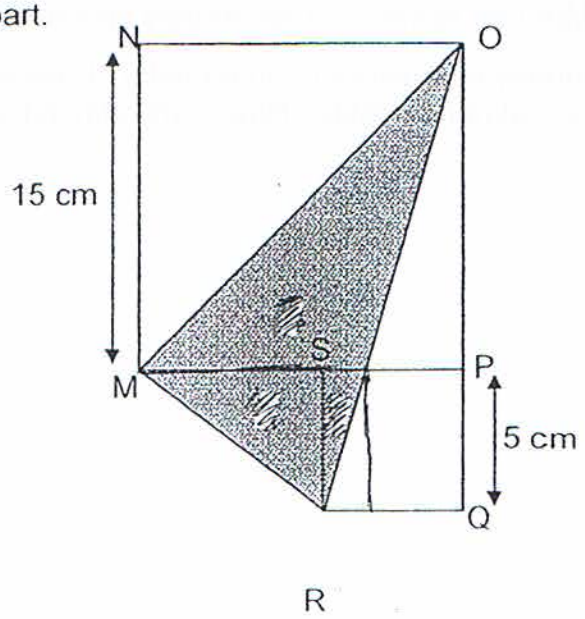
8 Three children sold some funfair tickets. Alex sold $\frac{5}{8}$ of the tickets. Bei Shan sold 36 tickets fewer than Alex. Chai Lian sold 20 tickets. How many tickets did they sell altogether?

Ans: _____ [3]

9 $\frac{3}{4}$ of the children in a childcare centre wear watches. $\frac{3}{4}$ of those who wear watches are girls. If there are 180 girls who wear watches, how many children are there in the childcare centre?

Ans: _____ [3]

10 In the figure below, not drawn to scale, MNOP and PQRS are squares. MN = 15 cm and PQ = 5 cm. Find the area of the shaded part.



Ans: _____ [3]

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11 Some pupils from 5K, 5L and 5M took part in a Social Studies quiz. 34 participants were from 5L and 5M. 21 participants were not from 5L and 19 participants were not from 5M. How pupils from these 3 classes took part in the quiz?

Ans: _____ [3]

19

6

12 Mrs Lee spent $\frac{1}{2}$ of her money on some almond cookies and $\frac{2}{5}$ of the remaining money on 6 slices of butter cake. Each slice of butter cake costs thrice as much as one almond cookie. How many almond cookies did she buy?

Ans: _____ [4]

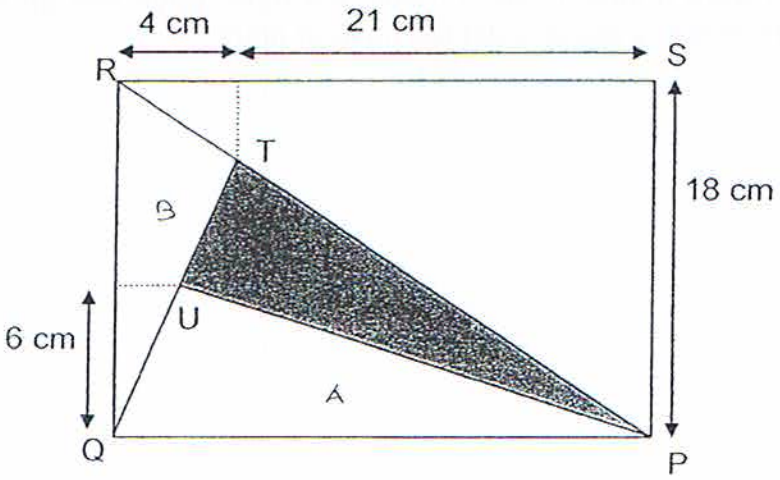
4

13 Three boys had 144 erasers altogether. Alan gave some of his erasers to Ben and Ben's erasers were doubled. Then, Ben gave some of his erasers to Chandra and Chandra's erasers were doubled. As a result, the three boys had an equal number of erasers each. How many erasers did ~~Bill~~ Ben have at first?

Ans: _____ [4]

4

14 PQRS is a rectangle. Find the shaded area.



Ans: _____ [4]

15 Margaret has some twenty-cent coins and fifty-cent coins in the ratio 3 : 4. Given that all the coins add up to $104, how many fifty-cent coins does Margaret have?

Ans: _____ s [5]

16 Three sisters Lisa, Ming and Nora shared the cost of a present for their father. Lisa paid $\frac{1}{4}$ of the total share of Ming and Nora. Ming paid $\frac{1}{9}$ of the total share of Lisa and Nora. Nora paid $60 more than Ming. How much did the present cost?

Ans: _____ [5]

17 Jason and Kevin were given some money each. If Jason and Kevin spent $100 and $50 each day respectively, Jason would have $1300 when Kevin had spent all his money. If Jason and Kevin spent $50 and $100 each day respectively, Jason would have $3700 when Kevin had spent all his money. How much money was given to Jason at the beginning?

Ans: _____ [5]

25

5

18 Study the pattern in the table and answer the questions below.

Line	Number Sentence	Sum
1	1 + 1	2
2	1 + 2 + 2 + 1	6
3	1 + 2 + 3+ 3 + 2 + 1	12
4	1 + 2 + 3+ 4 + 4 + 3 + 2 + 1	20
5	1 + 2 + 3 + 4 + 5 + 5 + 4 + 3 + 2 + 1	30
6	(a) _____ [1]	.....
....	.....	.....
....	.....	.....
12	.....	(b) _____ [2]
....	.....	.....
....	.....	.....

(a) Complete the table by filling in the number sentence for line 6.

(b) Complete the table by filling in the sum for line 12.

(c) In which line is the sum 420?

Ans: (c) _____ [2]

End of Paper

--- CHECK YOUR WORK CAREFULLY ---

5

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ANSWER SHEET

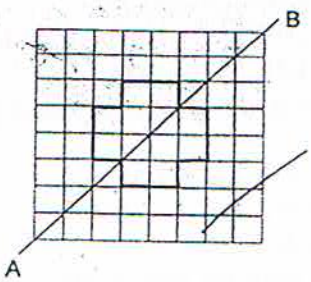
EXAM PAPER 2011

SCHOOL : AITONG
SUBJECT : PRIMARY 5 MATHEAMATICS

TERM : SA1

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

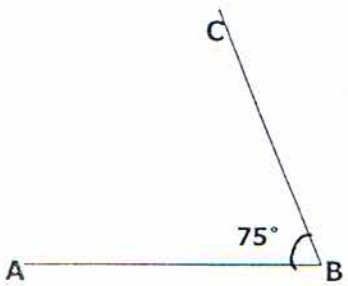
16)8058003 17)325.4g 18)3/20L 19)



20)60cm2 21)72 22)7 x 8 – 5 + 20 ÷ (5 – 3) = 61

23)$3\frac{5}{12}$ 24)71° 25)15 handshakes 26)55kg

27)



28)90 sweets 29)192

30)315 flowers

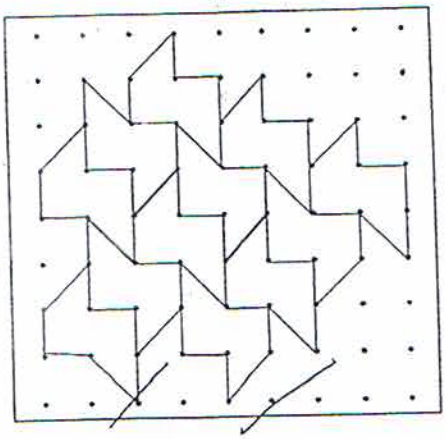
Paper 2

1)1500 ÷ 6 = 250
250 x 2 = 300

2)268 – 34 = 234
234 ÷ 18 = 13

3)2 : 9

4)



27

5)20 + 35 + 15 + 25 = 95
35 + 25 = 60
60/95 = 12/19
The fraction of Raju's pens that is blue is 12/19

6)8 x 960 = 7680
12 – 8= 4
4 x 1050 = 4200
7680 + 4200 = $11880
He earned $11880 in the 12 months

7)a)8 – 1 = 7
20 x 7 = 140m
It is 140m away from the start point
b)2.4km→2400m
2400m ÷ 20m = 120 lamp pasts
120 + 1 = 121
There are 121 lamp pasts altogether

8)36 + 20 = 56
56 ÷ 7 = 8
8 x 8 = 64
They sold 64 ticket altogether

9)180 ÷ 3 = 60
60 x 4 = 240
240 ÷ 3 = 80
80 x 4 = 320
There are 320 children in the childcare center

10)20 x 15 = 300
½ x 15 x 15 = 112.5
½ x 20 x 5 = 50
½ x 10 x 5 = 25
300 – 112.5 – 50 – 25 = 112.5cm^2
The area of the shaded part is 112.5cm^2

11)34 – 21 = 13 K+M
34 – 19 = 15 L+K
13 + 15 = 28 K+K+M+L
34 – 28 = 6 K+K
6 ÷ 2 = 3 K
3 + 34 = 37
There are 37 pupils

12)6 x 3 = 18
2u→6B or 18A
1u→18 ÷ 2 = 9
5u→9 x 5 = 45
She bought 18 almond cookies

13)144 ÷3 = 48
48 ÷2 = 24
48 + 24 = 72
72 ÷2 = 36
Ben had 72 erasers at first

14)21 + 4 = 25
25 x 18 = 450
450 ÷ 2 = 225
25 x 6 x ½ = 75
4 x 18 x ½ = 36
75 + 36 = 111
225 – 111 = 114
The area of the shaded area is 114cm2

15)3 x 20¢ = 60¢
4 x 50¢ = $2.00
$2.00 + 60¢ = $2.60
$104÷$2.60 = 40
40 x 4 = 160
Margaret has 160 fifty-cent coins

16)8 – 1 = 7 Nora
9 – 7 = 2 Lisa
7 – 1 = 6
6u→$60
1u→$10
7 + 2 + 1 = 10
10u→(10x10)
= $100
The present cost $100

17)Jason was given $4500 at first

18)a)1 + 2 + 3 + 4 + 5 + 6 + 6 + 5 + 4 + 3 + 2 + 1
b)156
c)20