



# AI TONG SCHOOL

2012

## SEMESTRAL ASSESSMENT 1

### PRIMARY 5

### MATHEMATICS

#### - Paper 1

#### (Booklets A and B)

**DURATION** : 50 min

**DATE** : 14May 2012

#### 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 ( ) / 5M ( )

Parent's Signature : _____
Date : _____

Paper 1	40
Paper 2	60
Total	100

**Paper 1**  
**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)

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- 1 In 745 183, the digit 5 is in the \_\_\_\_\_ place.
- (1) hundreds
  - (2) thousands
  - (3) ten thousands
  - (4) hundred thousands
- 2 The total number of books in a library was 25 000 when rounded off to the nearest thousand. Which one of the following could be the actual number of books?
- (1) 25 663
  - (2) 25 515
  - (3) 24 817
  - (4) 24 386
- 3 How many thousands are there in 4 million?
- (1) 40
  - (2) 400
  - (3) 4000
  - (4) 40 000
- 4 What is the missing number in the box?
- $$2\frac{1}{2} + 4\frac{1}{6} = 3\frac{2}{3} + \frac{\boxed{\phantom{000}}}{6}$$
- (1) 20
  - (2) 18
  - (3) 10
  - (4) 6

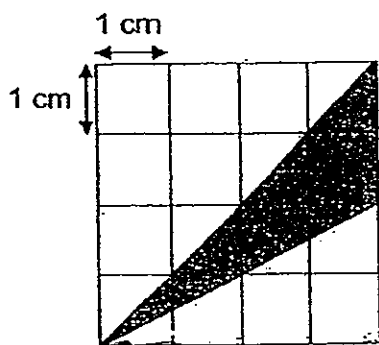
- 5 Madam Ang had  $\frac{5}{6}$  kg of rice. She packed them equally into 10 small containers. What was the mass of rice in each container?

- (1)  $\frac{1}{3}$  kg  
 (2)  $\frac{5}{6}$  kg  
 (3)  $\frac{1}{12}$  kg  
 (4)  $\frac{5}{12}$  kg

- 6 There were as many boys as girls in a class.  $\frac{2}{5}$  of the girls and  $\frac{1}{2}$  of the boys went on an excursion. What fraction of the pupils in the class went on the excursion?

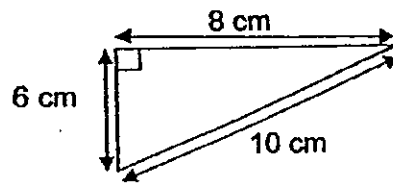
- (1)  $\frac{3}{7}$   
 (2)  $\frac{4}{9}$   
 (3)  $\frac{9}{10}$   
 (4)  $\frac{9}{20}$

- 7 Find the area of the shaded triangle.



- (1)  $12 \text{ cm}^2$   
 (2)  $8 \text{ cm}^2$   
 (3)  $6 \text{ cm}^2$   
 (4)  $4 \text{ cm}^2$

- 8 What is the area of the triangle shown below?



- (1) 24 cm<sup>2</sup>  
(2) 30 cm<sup>2</sup>  
(3) 40 cm<sup>2</sup>  
(4) 48 cm<sup>2</sup>
- 9 Ryan is  $\frac{3}{10}$  of his father's age now. Find the ratio of Ryan's father's age to their total age.
- (1) 3 : 10  
(2) 3 : 13  
(3) 10 : 13  
(4) 13 : 10
- 10 The ratio of Clarice's age to Daniel's age is 5 : 6. Their total age is 66 years. How old is Clarice?
- (1) 6 years old  
(2) 11 years old  
(3) 30 years old  
(4) 55 years old

- 11 For every 3 pencils that Gladys buys, she gets 2 free. What is the least number of pencils that she has to buy in order to get a total of 30 pencils?

- (1) 6
- (2) 10
- (3) 12
- (4) 18

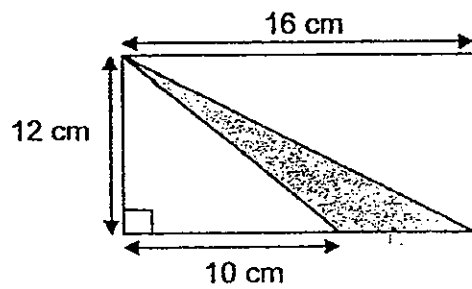
- 12 Meg bought a fruit cake and a cheesecake. The mass of the fruit cake was 2 kg.  $\frac{3}{5}$  of the fruit cake weighed the same as  $\frac{1}{2}$  of the cheesecake. What was the mass of the cheesecake?

- (1) 1kg
- (2)  $1\frac{1}{5}$  kg
- (3)  $2\frac{2}{5}$  kg
- (4)  $4\frac{2}{5}$  kg

- 13 Cindy and Faith had an equal number of stickers. Cindy gave away 48 of her stickers while Faith gave away 60 of her stickers. Cindy now had twice as many stickers as Faith. How many stickers did each of them have at first?

- (1) 54
- (2) 72
- (3) 84
- (4) 144

- 14 Find the area of the shaded triangle.



- (1)  $36 \text{ cm}^2$   
(2)  $60 \text{ cm}^2$   
(3)  $96 \text{ cm}^2$   
(4)  $156 \text{ cm}^2$
- 15 Ann and Candy have \$46 altogether. Ann and Ben have \$54 altogether. Ben and Candy have \$68 altogether. What is the ratio of Candy's share to the total sum of money?
- (1) 5 : 9  
(2) 5 : 14  
(3) 9 : 14  
(4) 9 : 23

**Booklet B**

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

16 Write three million, three hundred and three in figures.

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

17 Find the value of  $67 + 30 \div 6 - (7 \times 10)$ .

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

18 How many thirds are there in  $3\frac{2}{3}$ ?

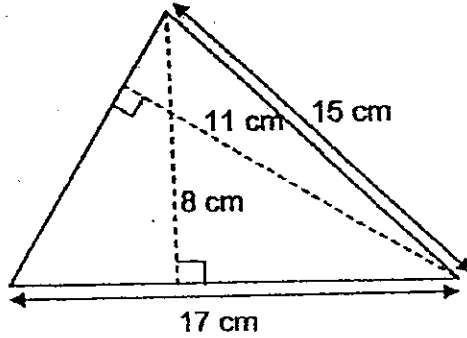
Ans: \_\_\_\_\_

19 A bottle contained  $\frac{3}{4}$  l of oil. Mrs Lim used  $\frac{1}{6}$  of the oil to fry a fish. How much oil was left in the bottle? (Leave your answer as a fraction in its simplest form.)

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



- 20 Find the area of the triangle.



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

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- 21 A piece of wire 63 cm long is cut into three pieces in the ratio 3 : 2 : 4. Find the length of the shortest piece.

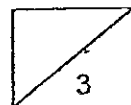
Ans: \_\_\_\_\_ cm

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- 22 For every 5 apples at a stall, there were 2 oranges. For every 3 pears, there were 4 oranges. Find the ratio of apples to pears to oranges.

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

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- 23 Jane was at her grandmother's house for  $\frac{2}{3}$  of the day. She spent  $\frac{1}{4}$  of her time there studying. What fraction of the day did Jane spend studying?

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

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- 24 When Joel opens a book, the sum of the facing page numbers is 369. What is the smaller page number?

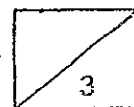
Ans: \_\_\_\_\_

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- 25 The number of people who attended a concert was 250 000 when rounded off to the nearest ten thousand. What can be the greatest possible number of people who attended the concert?

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

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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 spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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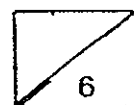
- 26 Construct  $\angle ABC$  such that line  $AB = 5$  cm and  $\angle ABC = 125^\circ$ . Label your diagram clearly.

- 
- 27 Mary and Neil shared a sum of money. Neil had thrice as much money as Mary. If Neil had \$54 more than Mary, find the total sum of money both of them had.

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

- 
- 28 Faiz gave  $\frac{4}{5}$  of his game cards to his brother. His brother returned 13 of the game cards and Faiz ended up with 48 game cards. How many game cards had Faiz at first?

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



- 29 A tank has a capacity of 5250 ml. It is  $\frac{2}{5}$  full. How much more water is needed to fill the tank to  $\frac{1}{2}$  full? (Give your answer in litres.)

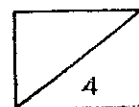
Ans: \_\_\_\_\_ l

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- 30 Some rose plants are planted along a 10 km road. The rose plants are 2 m apart and start at the beginning of the road. How many rose plants are there along that 10 km road?

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

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# AI TONG SCHOOL

2012

SEMESTRAL ASSESSMENT 1

PRIMARY 5

MATHEMATICS

Paper 2

DURATION : 1 h 40 min

DATE : 14 May 2012

### 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 ( ) / 5M ( )

Parent's Signature : _____
Date : _____

Total	60
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**Paper 2**

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.  
For questions which require units, give your answers in the units stated. (10 marks)

- 1 Lynn has just enough money to buy 23 kg of prawns if each kilogram of prawn costs \$4. How many kilograms of prawns can she buy if each kilogram of prawn costs \$4.60?

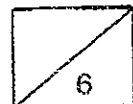
Ans: \_\_\_\_\_ kg

- 2 In 2012, Mr Lee is 38 years old and his son is 12 years old. In how many years' time will Mr Lee's age be twice the age of his son?

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

- 3 Gopal gave  $\frac{2}{5}$  of his stamps to his sister and  $\frac{1}{6}$  of the remainder to his brother. He had 125 stamps left. How many stamps did he have at first?

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



- 4 Johnny and David saved \$125 altogether.  $\frac{1}{2}$  of Johnny's savings is \$15 more than  $\frac{1}{3}$  of David's savings. Find David's savings.

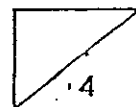
Ans: \$ \_\_\_\_\_

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- 5 The ratio of the number of men to the number of women to the number of children in a restaurant was 5 : 4 : 2. After 26 women left the restaurant, there were 46 more women than children. How many men were there in the restaurant?

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

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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)

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- 6 A packet of beads was shared equally among 28 girls. 6 of them gave all their beads to the rest of the girls. As a result, the rest of the girls received 3 more beads each. How many beads were there in the packet at first?

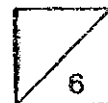
Ans: \_\_\_\_\_ [3]

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- 7 The number of pupils participating in a race is between 32 and 60. If the competitors get into groups of 6, the last group will have 2 pupils. If they get into groups of 8, the last group will have 4 pupils. How many pupils are there in the race?

Ans: \_\_\_\_\_ [3]

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- 8 5 jugs of water can fill  $\frac{4}{5}$  of the container. Another 1 jug and 3 mugs are needed to fill the remaining part of the container. How many mugs of water can the container hold?

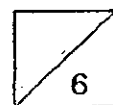
Ans: \_\_\_\_\_ [3]

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- 9 A fruit seller started with 68 more oranges than apples. After selling half the oranges, there were 28 more apples than oranges. Find the total number of oranges and apples he had at first.

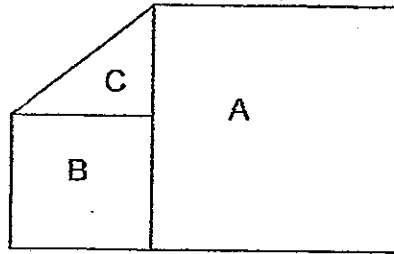
Ans: \_\_\_\_\_ [3]

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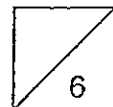
- 10 In the figure, A and B are squares and C is a right-angled triangle. The areas of A and B are  $81 \text{ cm}^2$  and  $25 \text{ cm}^2$  respectively. What is the area of C?



Ans: \_\_\_\_\_ [3]

- 11 Violet read  $\frac{2}{9}$  of a book on Monday. She read 8 more pages on Tuesday than on Monday. If she still had 22 pages to read, what is the ratio of the number of pages she read on Monday to the number of pages she read on Tuesday?

Ans: \_\_\_\_\_ [3]



12 Mrs Lee and Mdm Siti had a total of 3 ℓ of tea for sale.

After Mrs Lee sold  $\frac{1}{2}$  of her amount of tea and Mdm Siti sold  $\frac{3}{7}$  of her amount of tea, they had the same amount left. ~~After~~ Mdm Siti sold another 200 ml of tea, how many millilitres of tea would she have left in the end?

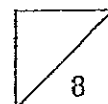
Ans: \_\_\_\_\_ [4]

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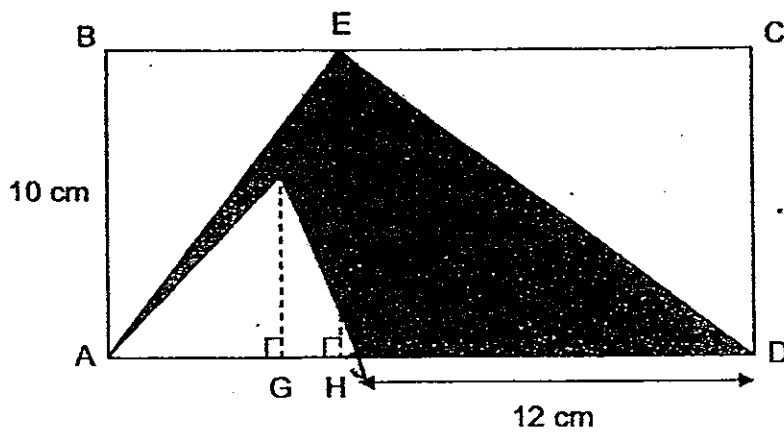
13 Alan had 140 stamps more than Cindy. If Alan gave Cindy 20 stamps, he would have three times as many stamps as Cindy. How many stamps did Alan have at first?

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

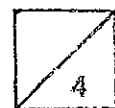
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- 14 The perimeter of rectangle ABCD is 58 cm. AED and AFD are triangles. FG is  $\frac{3}{5}$  of EH. Find the area of the shaded part.

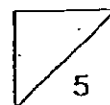


Ans: \_\_\_\_\_ [4]



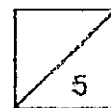
- 15 The mass of a box is 285 g when it is  $\frac{3}{10}$  filled with sand. Its mass is 420 g when it is  $\frac{3}{5}$  filled with sand. What is the mass of the box when it is completely filled with sand?

Ans: \_\_\_\_\_ [5]



- 16 The number of beads in Box A and Box B are in the ratio of 1 : 2. All the beads in Box A are red beads. In Box B, the ratio of the number of red beads to the number of yellow beads is 3 : 4. If there are 6 more red beads in Box A than in Box B, find the total number of beads in both boxes.

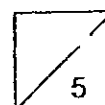
Ans: \_\_\_\_\_ [5]



- 17 June is given \$7 more pocket money than Minah each week. They each spend \$12 per week and save the rest. When June saves \$80, Minah saves \$10.
- (a) How much money does June get per week?
  - (b) How much money does Minah get per week?

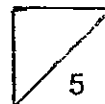
Ans: a) \_\_\_\_\_ [4]

b) \_\_\_\_\_ [1]



- 18 A calculator cost 3 times as much as a notebook. Katherine spent  $\frac{1}{5}$  of her savings on 25 such calculators. She then spent  $\frac{5}{12}$  of her remaining savings on some notebooks. She had \$350 left. What was the cost of one notebook?

Ans: \_\_\_\_\_ [5]



End of Paper  
— CHECK YOUR WORK CAREFULLY —







# ExamSutra 考试圣经

## Answer Sheets

SCHOOL : AITONG  
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

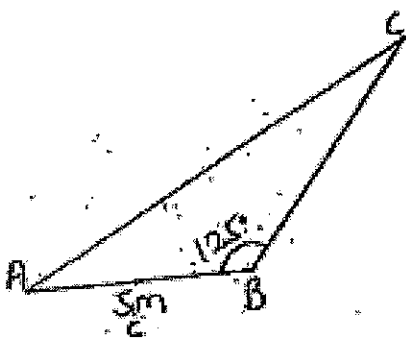
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	3	3	2	3	4	4	1	3	3	4	3	2	1	2

16) 3000303      17) 2      18) 11      19)  $\frac{5}{8}$       20)  $\frac{1}{2} \times 8 \times 17 = 68 \text{cm}^2$

21)  $3+2+4 = 9$   
 $63 \div 9 = 7$   
 $7 \times 2 = 14 \text{cm}$

22) 10:3:4      23)  $\frac{1}{6}$       24) 184      25) 254999

26)      27)  $3-1=2$       28)  $48 - 13 = 35$   
 $54 \div 2 = 27$        $35 \times 5 = 175$   
 $27 \times 4 = \$108$



29)  $\frac{1}{2} - \frac{2}{5} = \frac{5}{10} - \frac{4}{10} = \frac{1}{10}$   
 $\frac{1}{10} \times 5250 = 525$   
 $525 \text{ml} = 0.525 \text{L}$

30)  $10000 \div 2 = 5000$   
 $5000 + 1 = 5001$

Paper 2

1)  $23 \times 4 = 92$

$92 \div 4.6 = 20\text{kg}$

2) 14 years

3)  $125 \div 5 = 25$

$25 \times 6 = 150$

$150 \div 3 = 50$

$50 \times 5 = 250$

4)  $15 \times 2 = 30$

$125 - 30 = 95$

$95 \div 5 = 19$

$19 \times 3 = \$57$

5)  $46 + 26 = 72$

$4 - 2 = 2$

$72 \div 2 = 36$

$36 \times 5 = 180$

6)  $28 - 6 = 22$

$22 \times 3 = 66$

$66 \div 6 = 11$

$11 \times 28 = 308$

7) Competitors

$\div 6 + 2$

$\div 8 + 4$

32

✓

X

36

X

✓

38

✓

X

44

✓

✓

8)  $1\text{u} \rightarrow 15\text{mugs}$

$5\text{u} \rightarrow 15 \times 5 = 75$

9)  $68 + 28 = 96$

$96 \times 2 = 192$  (org at first)

$192 - 68 = 124$  (app at first)

$192 + 124 = 316$

10)  $\sqrt{81} = 9$

$\sqrt{25} = 5$

$9 - 5 = 4$

$\frac{1}{2} \times 4 \times 5 = 10\text{cniz}$

$$11) 3:5$$

$$12) 3000 \div 15 = 200 \text{ (1/7)}$$

$$200 \times 7 = 1400$$

$$1400 - 600 = 800$$

$$800 - 200 = 600 \text{ ml}$$

$$13) 2u \rightarrow 140 - 20 - 20 = 100$$

$$1u \rightarrow 50$$

$$3u \rightarrow 50 \times 3 = 150$$

$$150 + 20 = 170$$

$$14) 10 + 10 + 12 + 12 = 44$$

$$58 - 44 = 14$$

$$14 \div 2 = 7$$

$$\frac{1}{2} \times 6 \times 7 = 21$$

$$\frac{1}{2} \times 10 \times 7 = 35$$

$$\frac{1}{2} \times 12 \times 10 = 60$$

$$60 + 35 + 21 = 116$$

$$10 \times 19 = 190$$

$$190 - 116 = 74 \text{ cm}^2$$

$$15) 3u \rightarrow 420 - 285 = 135$$

$$1u \rightarrow 45$$

$$7u \rightarrow 45 \times 7 = 315$$

$$315 + 285 = 600 \text{ g}$$

$$16) A : B$$

$$= 1 : 2$$

$$= 7 : 14$$

$$B = R : Y$$

$$= 3 : 4$$

$$= 6 : 8$$

$$7 - 6 = 1$$

$$1u = 6$$

$$7 + 14 = 21$$

$$21u = 21 \times 6 = 126$$

$$\begin{aligned} 17) a) & 80 - 10 = 70 \\ & 70 \div 10 = 10 \text{ (weeks)} \\ & 7 + 1 = 8 \\ & 12 + 8 = \$20 \\ & b) 1 + 12 = \$13 \end{aligned}$$

$$\begin{aligned} 18) & 5/12 \times 4/5 = 1/3 \\ & 1 - 1/3 - 1/5 = 7/15 \\ & 25 \times 3 = 75 \\ & 7u \rightarrow 350 \\ & 1u \rightarrow 50 \\ & 3u \rightarrow 150 \\ & 150 \div 75 = \$2 \end{aligned}$$